GAZETTEER OF INDIA

WEST BENGAL



WEST BENGAL DISTRICT GAZETTEERS





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former State Editor

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PREFACE

The present volume is the eighth in the series of the West Bengal District Gazetteers now being written under a scheme jointly sponsored by the Government of India and the State Government of West Bengal. The last Gazetteer of the undivided Nadia district was published by J.H.E. Garrett in 1910. The present volume relating to the truncated Nadia district has been planned with an eye to the progress and achievements of the people since Independence.

Among the gentlemen who took part in preparing the preliminary drafts of different chapters of this volume mention should be made of Dr. Sankarananda Mukerji, Deputy State Editor, Shri Pranabranjan Ray and Shri Satyaranjan Sengupta, Assistant Editors of this Unit. Besides, Shri Kiran Sanker Sengupta, Shri Nirendra Nath Sen, Dr. Ramendra Narayan Nag and Shri Biswatosh Chatterjee, who are no longer in this Unit, also prepared the preliminary drafts of some of the chapters. Shri Durgadas Majumdar, IAS (retd.), the then State Editor, revised the drafts and himself wrote a few chapters. I made some unavoidable additions and alterations at the concluding stage.

The draft Gazetteer was scrutinised by the Central Gazetteers Unit under the Ministry of Education, Government of India, headed by Dr. P. N. Chopra, M.A., Ph.D. I avail myself of this opportunity to convey my grateful thanks to Dr. Chopra and his Unit. Shri B. Sarkar, ICS (retd.), Chairman, as well as Dr. S. B. Chaudhuri, M.A., Ph.D. and Dr. P. C. Gupta, M.A., Ph.D., Members, of the Advisory Committee examined the draft thoroughly and made valuable suggestions. I owe them a debt of gratitude.

Many Departments of the State and Central Governments and the district level offices of the State Government in Nadia district assisted us by supplying data for this volume. Shri Tarapada Maity, Research Assistant has prepared the bibliography and the index. Finally, I should place on record my appreciation of the work done by other Research Assistants, the Publication Assistant, the Proof Reader, the Copy Holder, the Stenographers, the Typists, the Comparers and the Head Assistant in the preparation and printing of this volume.

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BIMAL RANJAN CHAKRABORTI

State Editor

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सत्यमेव जयत

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CHAPTER 1

GENERAL

Most districts in West Bengal take their name from the head- INTRODUCTORY quarters station of the district, but Nadia district takes its name not from Krishnanagar (Krishnagar), the headquarters, but from Nadiā or Navadwip hallowed by the memory of Lord Srīkrishnachaitanya who was born here on 18th February A.D. 1486. The name Navadwip or Nadiā which is considered to be its abbreviated form does not appear to be an ancient one.1 The earliest mention of Nadiā spelt Nudiyā is in Minhāj-us-Sirāj's Tabāqat-i-Nāsiri in connexion with the raid on this city by Bakhtiyar Khiliji in circa A.D. 1200. The Tabaqat says that it was the capital of Lakshmanasena. But none of the eight copperplate grant inscriptions of the same king discovered till now mentions this as his capital. The post-Chaitanya Vaishnava literature and popular tradition however identify Navadwip with Nadiā.

Origin of the name of the district

The district of Nadia is situated in the heart of the Bengal delta held within the arms of the Ganga, namely, the Bhagirathi on the west and the Padma running into the Meghna estuary on the east. The entire district lies in the alluvial plain of the Ganga and its tributaries. The district has an area of 3,926 sq. km. and a population of 22,30,270 (18,12,211 rural and 4,18,059 urban) according to the Census of 1971 and is predominantly rural. It lies between 22° 52′ 30" and 24° 05′ 40" parallels of north latitudes and 22° 08′ 10" and 88° 48′ 15" meridians of east longitudes. The district is included in the Presidency Division. It is bounded on the north and north-west by the district of Murshidābād. On the north-east and east it is bounded by the Bangladesh districts of Rajshahi and Kushthia. The mid-line

Location and general boundaries

Some attempts have, however, been made to trace the origin of Navadwīp in carlier periods. The famous Vaishņava poet Ghanasyāmadāsa in his Bhaktiratnākara has tried to identify Navadwīp by interpreting certain slokas of the Vishnu Purāņa indicating the existence of Navadwip during Purāṇic age. In the Vishṇu Purāṇa, there is reference to nine islands in these regions, Indradvipa, Kaserdvipa, etc. Ghanasyamadasa identifies the unnamed ninth island as Navadwīpa. In the Mahāvamša we find the name 'Naggadvipa' mentioned in connexion with the history of Vijaya Simha, son of Simhabāhu, the king of Rāla Rāṭṭa (or Rāḍha Rāṣḥṛa, je. present Barddhamān district) of Bengal in the 6th century B.C. Naggadvipa may apparently be identified with Navadwip (vide S. P. Dasgupta, 'Early History and Origin of Navadwipa' in Proceedings and Transactions of the All-India Oriental Conference, 1961, pp. 174-75).

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of the river Bhāgirathī generally forms the western boundary except for a small strip of land around and including the city of Navadwīp. In the south and south-east, the district is bounded by the district of 24-Parganas. The shape of the district is irregular, lying north to south.

NADIA

History of the district

The British district of Nadia was formed as early as 1787. The district at that time included a good part of the present district of Hugli and portions of the present Bongaon subdivision of the district of 24-Parganas. The pre-partition boundaries of the district took shape around 1870. The island of Agradwip about 15 miles to the north of Navadwip was transferred to Barddhaman in 1888 as it lay on the western side of the Bhagirathi at the time. An order was made in 1873 to transfer Navadwip to Barddhaman also but it was rescinded next year. The present boundary between Nadia and Murshidabad was determined by Notification No. 2947 JUR dated the 17th March 1923 and the boundary between Nadia and Barddhaman and Nadia and Hugli was determined by Notification No. 7874 JUR dated the 24th August 1922. There has been no change in the boundaries on the north, south and west. From the east, however, a portion of the district was given over to East Pākistān (now Bānglādesh) by the Radcliffe Award of 1947. The portion of the award of Sir Cyril Radcliffe dated the 12th August 1947 affecting the boundary of the district is reproduced below:

"From the point of the river Ganges where the channel of the river Mathabhanga takes off, the line shall run along that channel to the northernmost point where it meets the boundary between the thanas of Daulatpur and Karimpur. The middle line of the main channel shall constitute the actual boundary. From this point the boundary between East and West Bengal shall run along the boundaries between the thanas of Daulatpur and Karimpur; Gangni and Karimpur; Meherpur and Karimpur; Meherpur and Tehatta; Meherpur and Chapra; Damurhuda and Krishnaganj; Chuadanga and Krishnaganj; Jibannagar and Krishnaganj; Jibannagar and Hanskhali; Mahespur and Hanskhali; Mahespur and Ranaghat."

On the 14-15th August 1947 the district, as at present constituted, came to West Bengal. Subsequently, there was disagreement with Pākistān over the interpretation of the first two sentences of the portion of the Radcliffe award quoted above. Another boundary tribunal was appointed in 1949 and the latter,

the Bagge tribunal, in 1950 modified the definition of the Radcliffe award in the following words:

"The boundary between India and Pakistan shall run along the middle line of the main channel of the river Mathabhanga which takes off from the river Ganges in or close to the north-western corner of the district of Nadia at a point west-south-west of the police station and camping ground of the village of Jalangi as they are shown on the air photograph map of 1948, and then flows southwards to the northernmost point of the boundary between the thanas of Daulatpur and Karimpur.

"The point of the offtake of the river Mathabhanga shall be connected by a straight and shortest line with a point in the midstream of the main channel of the river Ganges, the said latter point being ascertained as on the date of the award or if not possible on the date of the demarcation of the boundary line in Dispute I. The said point so ascertained shall be the southeasternmost point of the boundary line in Dispute I, this point being a fixed point."

The present district of Nadia after the partition was formed by Notification No. 545 GA dated the 23rd February 1948 with the following police stations: (1) Krishnanagar, (2) Chāprā,

- (3) Navadwip, (4) Käliganj, (5) Nākāśipāra, (6) Krishnaganj,
- (7) Karimpur, (8) Tehatta, (9) Rānāghāt, (10) Shāntipur, (11) Chākdaha, (12) Haringhātā, (13) Hānskhāli.

Karimpur police station was reconstituted by Notification No. 61 GA dated the 17th August 1947 as follows:

- "(a) Area now included in the Karimpur P.S. in the district of Nadia, and
- "(b) Area now included in the Daulatpur P.S. in the district of Nadia and lying to the west of the river Mathabhanga up to and including the middle line of the main channel of the said river."

The Nadia district is divided into two subdivisions - Sadar and Subdivisions Rānāghāt. The Sadar subdivision comprises eight thanas and the Rānāghāt subdivision comprises five thanas. For administrative convenience the sadar subdivision is divided into two parts, each consisting of four thanas and placed under two Subdivisional Officers, both having headquarters at Krishnanagar. The Sub-

¹ A new police station, Kalyāṇī, has been carved out of Chakdaha police station vide Notification No. 5665-Pl. dt. 27th November 1963. It contains J.L. Nos. 48/193, 51-58, 60, 69, 72-76, 78-92 of Chakdaha police station.

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divisional Officer of Rānāghāt has headquarters at Ranaghat. The Sadar (South) subdivision consists of the following thanas: Krishnanagar (Kotwali), Navadwip, Krishnaganj and Chāprā. The Sadar (North) subdivision consists of the following thanas: Nakasipara, Kaliganj, Tehatta and Karimpur. Rānāghāt subdivision consists of Rānāghāt, Shāntipur, Hānskhāli, Chākdaha and Haringhātā.

There are nine Tahasīl circles in the district, each under a Junior Land Reforms Officer, and there are 232 Tahasil blocks, each in charge of a part-time Tahasildar. The old revenue parganas are distributed amongst the several thanas as below:

- Krishnanagar (Kotwāli) Police Station:
 Ukhrā, Bāgwān, Jāhāngirābād, Mahatpur, Māmjoāni.
- (2) Navadwīp P.S.: Ukhrā, Bāgwān, Jāhāngirābād, Mahabbatpur, Kāshimpur.
- (3) Krishnaganj P.S.: Ukhrā, Umarpur, Munsibpur, Matiāri, Mahatpur.
- (4) Chāprā P.S.:
 Bāgwān, Mahabbatpur, Ukhrā, Munsibpur, Mahatpur, Umarpur.
- (5) Nākāsipārā P.S.: Bāgwān, Belgāon, Kubizpur, Khosalpur, Mamdanipur, Jāhāngirābad, Amirpur, Pātmahal, Mahabbatpur, Rājpur, Fazilpur, Digambarpur, Palāshi.
- (6) Kālīganj P.S.: Palāshi, Betāi, Bāgwān, Monoharshāhi, Khosalpur, Belgāon, Fatesing.
- (7) Tehatta P.S.: Bāgwān, Belgāon, Palāshi, Rājpur, Betāi, Fatehjangpur. Patkābāri.
- (8) Karimpur P.S.: Goas, Taragunia, Rājpur, Patkābāri, Betāi, Fatehjangpur Kāsimnagar, Hossain-ujial, Shāhābāzpur, Pipulberiā, Mahammadshāhi.

(9) Ranaghat P.S.:

Ukhrā, Māmjoāni, Shāntipur, Kāugāchi, Alampur, Srinagar, Mulghar, Pātmahal, Pānchpur, Rāypur.

(10) Shāntipur P.S.:

Ukhrā, Rānihāti, Jaypur, Shāntipur, Krishnanagar, Māmjoāni, Pātmahal, Āmirpur.

(11) Hānskhāli P.S.:

Ukhrā, Māmjoāni, Matiāri, Umarpur, Digambarpur.

(12) Chākdaha P.S.:

Rāypur, Panchnu, Ālampur, Hātikanda-Gauraha, Ukhrā, Havelishar, Baradā, Arsa, Selampur, Zāmirā, Śrīnagar.

(13) Haringhātā P.S.:

Ukhrā, Panchnu, Havelishar, Alampur.

The district is a large alluvial plain spreading southwards approximately from the head of the delta formed by the succession of rivers into which the Gangā has from time to time distributed itself. The country is also flat having pockets of villages and clusters of trees and is intersected by rivers, back-waters, minor streams and swamps. Agriculturally, the soil is considered to be high land and bears rice and cold weather crops. To the west of the district is the Kalāntar, a lowlying tract of black clay soil stretching from the Murshidābād district through the gap in the north-western boundary between the Jalangi and Bhagirathi down into the Kālīganj and Tehatta police stations. This tract bears only winter rice and is much liable to famine, if the monsoon fails. It is liable to injury from inundations from the Bhāgirathī when the Lalitākuri embankment in the Murshidābād district gives way.

The Bhāgirathī, also called the Hugli from the confluence of the Jalangi, the Bhairab-Jalangi and the Māthābhāngā-Chūrnī are the rivers of the district and are collectively called the Nadia rivers. Shortly after passing Rājmahal, the Gaṅgā enters its deltaic career and gives off its first effluent, the Bhāgirathī, at Geria about 54 km. above Rāmpur-Boāliā and it receives its last tributary, the Mahānandā, a few miles further down. About 29 km. below the Bhāgirathī offtake, the Bhairab spills south-

Natural configuration

The Nadia Rivers

¹ cf. B. Ray, Census: 1961: West Bengal: District Census Handbook: Nadia, Calcutta, 1967, p. 9.

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wards over the right bank 17 km. above Akriganj and joins the Jalangi. A short distance below the Bhairab offtake, the Śiālmārī takes off from the Gaṅgā flowing only during the rains, and also joins the Jalangi. The original offtake of the Jalangi which was below the Bhairab offtake is now ordinarily closed and flows only in exceptionally high floods. About 30 km. above Sarah and from a point very near the original Jalangi offtake, the Māthābhāngā takes off from the right bank of the Gaṅgā (Padmā) and flowing south-westerly enters the Bhāgirathī near Chākdaha assuming the name Churni.

The Jalangi

Flowing in a tortuous course forming the western boundary of Karimpur and a part of Tehatta thanas, the Jalangi enters the Tehatta thana below Palāshipārā and traversing that thana in serpentine bends passes along the boundary between Nākāsipārā and Chāprā, and Chāprā and Navadwīp thanas till its southward course is turned westward below Krishnanagar. Flowing almost straight westwards, it discharges into the Bhāgirathī at Swarūpganj opposite Navadwīp. The river bed is alluvial. The length of the course in the district is 166 km. from Muthtiārpur to Swarūpganj.

The Bhairab

Writhing in tortuous bends, the Bhairab, a dead river now, traverses Karimpur thana in a south and south-easterly direction and passes out of the district into Meherpur thana in Bangladesh. It does not re-enter the district.

The Mathabhanga

Flowing along the boundary between Karimpur thana in Nadia district and Daulatpur thana of Bangladesh, it enters Bangladesh. Re-entering the district of Nadia in Krishnaganj thana, it bifurcates into two branches. The western branch under the name of the Churni flows westwards across Hānskhāli, Rānāghāt and Chākdaha thanas and discharges into the Bhāgirathī. The eastern branch under the name Ichhāmatī forms the eastern boundary of the district till it enters Bongāon thana in the district of 24-Parganas.

It would be observed that after the eastward shift of the Gangā, all rivers now flowing southwards from the right bank of the Gangā-Padmā between Geriā and Goālundo have been reduced to the position of spill channels. In Nadia district, we are concerned with the Bhairab (including the Kulkuli and the Gobra Nulla and Siālmāri), the Jalangi and the Māthābhāngā with its branches, the Churni, the Kumār and the Ichhāmati. The Bhāgirathī which forms the western boundary of the district now has the character of both a spill stream as well as a permanent

river flowing through a bed of its own formation and subject to tides at the lower end (actually, even now a tide of about a foot is noticeable at Navadwīp). It is learnt from the account of Tavernier that in A.D. 1666 the Bhāgīrathī offtake was dry and unnavigable except during the monsoon months. It was so at the time of Rennell's survey (1781). The British Government realized the need of this waterway and investigations were started on the condition of the Nadia rivers. A brief summary of the results of such investigations is given below.

There has been considerable changes in the Nadia rivers in the past three hundred years and only the Bhagirathi has remained fairly constant in the present direction. The Kumar formerly followed a course something like the present upper course of the Māthābhāngā and then flowing in a east-south-easterly course joined the Ganga near Madaripur. The Madhumati and the Chandana have now cut across this course. Rennell mentions the Chandanā as a very deep and large distributary of the Gangā. It has now deteriorated completely. The Bhairab, which even after the eastward shift of the Ganga flowed as a right bank distributary and a very important river of this area, formerly took off from the Ganga below the Bhagirathi entrance and traversing southeast through Nadia district went past Jessore and Khulna into the Madhumatī and Haringhātā estuary. About 300 or 400 years ago the Jalangi opened out usurping a part of the course of the Bhairab and cutting across took the drainage to the south-west into the Bhagirathi. Somewhat lower down, the Mathabhanga again cut across its course running south-westwards. The upper Bhairab opened again in 1874 and carried the Ganga spill to the Jalangi at Mukhtiarpur. The original entrance of the Jalangi at Jalangi has dried up, while the Mathabhanga which was originally a branch of the Jalangi now takes off from a point slightly lower down the original Jalangi offtake. The intermediate portion of the Bhairab between the Jalangi and the Mathabhanga has completely died out and the lower section decayed. In the lowest portion below Jessore, the Bhairab now takes the spill from the Kumār and the Garāi and being reversed in direction by the Āthārabānkā, it now flows into the Rūpsā and thence through the Pusur into the Marjata estuary. The Ichhamati was a branch of the old Bhairab flowing south. Since the Mathabhanga opened the Churni branch, the Ichhāmati has deteriorated. The Jamunā, which took off the Bhagirathi at Bansberia and joined the Ichhamati lower down, has completely deteriorated and nearly closed.

Changes in Nadia Rivers 8 NADIA

The Jalangi and the Māthābhāngā-Churni are comparatively new rivers. The Churni was originally a branch of the Ichhāmati as shown by Rennell and it joined the present channel at Āraṅghāṭā. Later, the Māthābhāngā opened into it and the Ichhāmati lost much of the spill it used to get from the Māthābhāngā.

Rennell shows the Bhairab on his map as a thread-like channel, draining south from the Kulkuli river at Akrigani and following generally but indefinitely the present course of the Banti and the Suti rivers. The Kulkuli, probably an old spill channel of the Ganga, had in Rennell's time no definite connexion with it and merely flowed as a flood season spill. Passing Akriganj and Maricha it took the general course of the present Sialmari river. Since Rennell's time, the connexion between Akriganj and Marichā has been destroyed. The Siālmārī has become an independent flood spill of the Ganga and the Bhairab has found an entrance of its own at Akriganj. This connexion at an acute angle to the main stream of the Ganga forced a larger volume of water into it and the Bhairab has worked out a channel of its own eastwards in an area where Rennell shows no stream. This seems to have been effected towards the eighties of the last century giving the Jalangi a new entrance. By 1914, the Bhairab usurped the upper course of the Kulkuli and established an offtake about 10 miles west of Akriganj and flowed nearly parallel to the Gangā for some distance. The upper Jalangi channel has now deteriorated and flows only in high flood and the entrance of the Jalangi has been appropriated by the Mathabhanga.

TOPOGRAPHY

The course of the old Bhairab, as can be traced, shows that the general slope of the district is towards the south-east. The slope at present is very gradual and the area is so interspersed with *jhils* and marshes and old beds of rivers that the general slope is not easily noticed. The Bhāgīrathī with its high bank is the natural western boundary and the slope to the south-east immediately adjacent to the river is so marked that it has been necessary to construct a line of embankments. The slope on the west with the trend from the high right bank of the Gangā, which bounds the Nadia-Murshidābād tract on the north and east to the offtake of the Māthābhāngā, forms a basin in the upper portion of the tract. Through the middle of this tract the Bhairab runs following the natural line of drainage and once a satisfactory

entrance to the Gangā was achieved at Akriganj, the river again developed after lying moribund for a long time.

To the east of the Bhairab, the Sialmari runs at an angle to the drainage slope in a south-easterly course. As an old spill of the Gangā, it was quite well-developed in Rennell's time. It now carries the spill from the Ganga at high flood. Between the Bhagirathi and the Bhairab, the Gobra Nala took the spill from the Bhagirathi and discharged into the Kalantar area. The upper part of the Gobra Nala has now been beheaded by the railway embankment from Jiaganj to Bhagwangola. The lower portion of the Gobra Nala under the name of the Bhandardaha Nala drains along the line of the Beldanga-Amtolla Road into the Suti Nadi. The latter nulla (nala) is a continuation of the Banti Nadi which is a spill of the Bhairab, taking off at Banti east of Daulat Bāzār and forms the older and western branch of that river, which is shown in Rennell's charts. It re-enters the Bhairab-Jalangi at Bali Tungi at the same point where Rennell shows the confluence in his time. The old Bhairab branch, or Banti Nadi, flows east from the head of the Suti Nadi and under the name of the Kumār Nadi enters the main branch higher up and immediately at its confluence with the Jalangi at Mukhtiarpur.

The Kalāntar area stretches south from Beldāngā in between the Bhāgīrathī and the Jalangi. It consists of large marshes and dead river beds. It has no drainage and during rains forms a large shallow lake. It can be easily seen that this was the spill area of the Bhāgīrathī and the Bhairab. The embankment of the Bhāgīrathī prevented the Bhāgīrathī spill and the decay of the Bhairab denuded the Bhairab spill. The area, therefore, was not formed by silt deposit and remains to this day a shallow lagoon.

Between the Bhairab-Jalangi and the Māthābhāngā, the country is intersected by innumerable old Bhairab channels, and bils, trending in every direction. The general slope of the country, however, becomes definitely south-eastern and cuts across the Māthābhāngā channel at a considerable angle. As a consequence, the greater part of the water of the Māthābhāngā is carried away by the Kumār and the attempt to close the Kumār offtake in 1820 to increase the flow of the Māthābhāngā merely resulted in another opening of the Kumār by the Pāngāsi river. The south-eastward slope is so pronounced at this place that all attempts to keep the Māthābhāngā navigable had been abortive because the Jessore distributaries took away from three-fourths to five-sixths of its spill supply.

The Kalantar

The Māthābhāngā has changed considerably since Rennell's time. Below Sibnivās, it continued along the present Ichhāmati channel for about twenty miles and the Churni, which was a mere nulla then, branched off due westwards and passing by the north of Āranghāṭā went south-westwards into its present channel at Rānāghāt. The opening of the Churni in the last century, contrary to the slope of the tract, must, therefore, have been due to some unusual cause.

Rennell conducted his surveys between 1764 and 1781. In his 'Account' of the surveys Rennell does not mention the Māthābhāngā, though he shows it as a thin flood stream. Captain Colebrook stated that in 1795 the Māthābhāngā was navigable throughout the dry season. The Māthābhāngā must have opened during the intervening period and during this period the Tista combining with the Brahmaputra began to flow into the Gangā through the Jamunā channel. This raised the flood level at Goālundo and the backwater pressure must have opened the Māthābhāngā. The increased inflow of water through the Māthābhāngā in this manner must have helped the opening of the Churni. This backwater pressure later on opened the Garai and also the Kīrtināśā channel of the Padmā. The back pressure at the Māthābhāngā head was thus relieved and the river began to deteriorate by about 1820.

Attempts to keep Nadia rivers navigable

Due to deterioration of the Mathabhanga, the Calcutta merchants petitioned the Government for taking steps to keep the river navigable. Accordingly, Mr. C. K. Robinson was appointed Superintendent and Collector of the Māthābhāngā and this appointment formed the basis of the Nadia River division of the Public Works Department. The Mathabhanga channel was trained by bandal and the impediments in the channel in the nature of sunken boats, fallen trees, etc. were removed and trees on the sides of the channel were cut down. The Mathabhanga was thus navigable from the entrance to the mouth of the Kumar and it remained so till March 1821. Since the Kumār took away a large volume of the water of the Māthābhāngā, an attempt was made to close its mouth by sinking a caissen and some old boats and a loop of the Māthābhāngā was cut at this point to attract more water by increasing the slope. Mr. May, who succeeded Mr. Robinson, started dredging operations but the entrance of the Mathabhanga was so closed that the dredger could not be used. The Jalangi entrance was kept open with a 10 ft. draft in December 1823 and 4 ft. was obtainable throughout the river.

The Bhāgīrathī entrance at this time took off the main channel of the Gangā about 15 km. east of Farākkā and was very favourably placed. The dredging boat was accordingly set up to work there and in 1824 Mr. May was given the additional charge of the Bhāgīrathī and the Jalangi with a regular establishment.

The Bhagirathi closed in March and the Jalangi in May 1824. After the rains of that year the Bhagirathi entrance shifted 7.5 km westward towards Farākkā where it lay in the direct line of the main stream current. The entrance was cut through rapidly, widening from 250 ft. to half a mile and deepening to 22 ft. in January 1825. In spite of this, however, its depth in the shoals down to Nadia was kept by bandalling at only 3 ft. throughout the dry season. The Jalangi provided that year a depth of a little over 2 ft., but the Mathabhanga below the Kumar river was practically dry. In 1825, the main Ganga channel cut through. a loop and shifted to a more direct course right through the Bhagirathi entrance leading diagonally across 7 km. east of Farākkā. This new entrance, 12 km. south-east of the old position, closed early in November 1825 and though a second dredging was applied, all the rivers closed in March 1826. The Bhagirathi entrance then gradually worked downstream and in spite of dredging and cuts, was impassable except by small boats before the end of December each year. In November 1829, the depth was only 11 ft. Meanwhile, the Jalangi, which had closed for a part of 1826-27, improved slightly and in 1827-28 sufficient depth was available during the greater part of the dry season for boats of 2 ft. draught.

After the closing of the Kumār off-take in 1821, the Pāngāsi, which branched off from the Māthābhāngā further lower down, began to open out and take a greater portion of the spill into the Kumār and by 1824 the position became the same as before the blocking of the mouth of the Kumār. The Māthābhāngā remained in a bad state from 1825 to 1830 and two attempts to divert the water flowing down the Pāngāsi proved unsuccessful. In 1831, an early rainfall increased the discharge of the western tributaries of the Bhāgīrathī and the channel below Baharampur improved. In the flood season of 1832, the entrance of the Jalangi which had shifted 8 km. to the north closed completely in the dry season and the Māthābhāngā progressively continued to deteriorate. The work on the Nadia rivers was stopped in 1835 as the Government considered that the results obtained were not worth the cost.

Floods

The description of the rivers in Nadia district would show that the district is likely to suffer more from inundation owing to absence of drainage than from floods. From records available from the year 1820, it appears that there was a severe inundation in 1823 when the Bhagirathi rose high at Baharampur, though the level was not recorded. The Bhagirathi embankments were breached for a few miles above Lātākuri with the result that the low-lying area in between the Jalangi and the Bhagirathi was inundated badly. The flood water followed the general south-eastern slope of the district, over-topped the Jalangi and the Mathabhanga and cut out a new channel to the river Kumar to a distance of 12 km. The next high flood appears to have occurred in 1838 when the Bhāgīrathī rose to 29 ft. and 3½ inches above zero at Baharampur but the extent of damage or spillage is not on record. Between 1838 and 1856, there seems to have been no flood of importance. In 1856, the Bhāgīrathī level rose 29 ft. 2½ inches at Baharampur when the Lātākuri embankments burst and all the low-lying areas were inundated. The next high flood took place in 1867 when the Bhagirathi registered a level of 29 ft. 1½ inches above zero at Baharampur. The flood was of short duration and little damage was done. In 1870, the Bhagirathi rose to 29 ft. 6 inches over zero at Baharampur and some of the embankments gave way. In 1871, the Bhagirathi rose 29 ft. 61 inches and the Latakuri bundh burst causing inundation of low-lying areas. In 1874, the Latakuri embankment again gave way when the Bhagirathi rose to 29 ft. 3 inch. Details of these floods, however, are not available from records.

In recent times, the district was again inundated in 1956. Between the 25th and 27th September 1956, there was unusually heavy rainfall in the catchment area of the Dāmodar and the Ajay as well as in the Gaṅgā-Bhāgīrathī area of middle Bengal. As a result of the extensive and intensive rainfall, all the low-lying areas of the district became waterlogged. All the rivers and the tributaries were running full at that time with the monsoon water and could not, therefore, drain out the water. The Jalangi and also the Churni were resisted at their outfall into the Bhāgīrathī as a result of excessive flood water coming down the Ajay into the Bāgīrathī at Katwa (Kāṭoyā). At Krishnanagar, the water level rose to 36.10 ft. on the P.W.D. gauge against the danger level of 26.06 ft. At Swarūpganj, the water level went up to 35.02 ft. on the 30th September 1956 which was 7.02 ft. above the danger level. At Hānskhāli on the Māthābhāngā

the highest level recorded was 28.05 ft. on the P.W.D. gauge between the 2nd and 4th October 1956. The flood in the district continued till the 10th October 1956 when the water level gradually came down. Four police stations of the district, namely, Käliganj, Näkäsipärä, Navadwip and Shantipur were severely affected. Chākdaha. Ränäghät. Chāprā. Tehatta. Kotwāli, Haringhātā and Hānskhāli police stations were partially affected. The total area affected in Nadia district was 966 sq. miles of which 484 sq. miles were inundated by the rivers and the rest by local rainfall.1

During the latter part of September and early October 1959, another flood occurred in the district caused again by the same factors, namely, banking up of the drainage channels of the district by high level in the Bhāgīrathī caused by flood waters of the Ajay.

As has been mentioned already, the rivers like the Bhāgīrathī, the Bhairab and the younger Māthābhāngā and the Jalangi had entered the deltaic phase and consequently, in the district of Nadia there had been quite vigorous oscillations of these rivers. The Bhairab is now dead, the Jalangi appears to have been bounded by firm banks for some time while the Māthābhāngā, which has been dying in its upper course, had shown oscillations in its lower course even after Rennell's survey. The result of such oscillations are noticeable in the large number of bils, khāls and dead river beds lying scattered all over the district. The principal amongst these are enumerated below.

1. Karimpur thana: Bils: The Padma bil and Gairia bil, the Pati bil, the Kumāri bil, the Dhandi bil, the Chakla bil, the Chandra bil, the Tiarpara bil, the Nalgari bil, the Dighri bil, the Dhopagari bil, the Tangrāmāri bil, the Kaurā bil, the Lakshmijay bil, and the Ahighāt bil.

 $Kh\bar{a}ls$: The Mahesgari $kh\bar{a}l$ and Ichhāmati $kh\bar{a}l$. These bils and $kh\bar{a}ls$ join up during rains and give the appearance of a vast sheet of shallow water dotted with occasional hamlets on slightly elevated portions of the tract.

2. Tehatta thana: Bils: the Nalgari bil, the Pank bil, the Fatehpur bil, the Dubrajoy bil, the Gabri bil, the Mahismāri bil, the Chaul bil, the Maheskholā bil, the Banar bil, the Gandagara bil, the Chunchakholā bil, the Nagar bil, the Harma

Bils, Khāls & dead river beds

¹ Report on the floods of September-October 1956 in Central, Western and Southern Districts of West Bengal, 1958.

bil, the Kanthuli bil, the Kulchandi bil, the Khalder bil, the Amul bil, the Phulir bil, the Pon bil, the Boāliā bil, the Chhaturi bil, the Maragangni bil.

Khāls: the Maragangni khāl, the Pāikpārā khāl, the Herubhāngā-Hanipur khāl, the Nanyer khāl, the Saraswatī khāl and the Belā khāl.

During the rainy season, the western side of Jalangi is not much submerged while in the eastern and southern parts of the oscillations to the east of the Jalangi the rain water accumulates forming one continuous sheet of water when the bils and the khāls are connected. The hamlets in this area are widely separated with occasional growths of bamboos and a sprinkling of mango trees.

- 3. Kālīganj thana: There are many depressions in this thana area caused by the oscillations of the Bhāgīrathī. These depressions are long and narrow. Away from the Bhāgīrathī the depressions are fewer in number but are deeper and hold water even during summer. These bils are the Kutiar bil, the Āmir bil, the Chāprā bil, the Boāliā bil, the Mirkuli bil, the Chanduriā bil, the Chituā bil, the Bāgher bil, the Boduli bil, the Jiālār bil, the Khālder bil and the Pānighātā bil.
- 4. Nākāsipārā thana: The area contains a large number of dead rivers running from north to south which are relics of the oscillations of the Bhāgīrathī as well as of the Jalangi. Most of them are dry in summer but a few are deeper and water remains throughout the season.

The number of khāls and bils in this area are: Bils: the Bara bil, the Ganradobar bil, the Jiālār bil, the Pon bil, the Khālder bil, the Soiti bil, the Kuoguri bil, the Kalsi bil, the Kāogāchi bil, the Beledaha bil and the Gotpārā bil.

Khāls: the Arpara khāl, the Khānā khāl and the Gurguria khāl,

Lying in between the Bhâgīrathī on the west and the Jalangi in the east this thana is still subject to spills from both rivers. Usually, these bils and $kh\bar{a}ls$ get flushed during high floods every year and silt deposition is still in progress in these areas.

5. Chāprā thana: In this thana there are a large number of dead river courses which apparently belonged to the old Bhairab before the Jalangi cuts across its course. Most of the depressions lie in between the Ichhāmati and the Jalangi.

As stated already, the Māthābhāngā oscillations were noticeable in this area even as late as 1940. The number of bils and khāls are as follows.

Bils: the Dahakoltā bil, the Patra bil, the Paiti bil, the Piprā-gāchā bil, the Bāgdiā bil, the Elangi bil, the Chāprā bil, the De bil, the Gokhropotā bil, the Bāniākhar bil and the Dharmadaha bil.

Khāls: the Palda khāl, the Daribadi khāl, the Paldanadi khāl, the Kalannanadi khāl and the Jhornadi khāl.

6. Krishnanagar thana (Kotwāli): The westward bend of the Jalangi divides this thana into two halves. In the northern half relics of the Bhāgīrathī oscillations and in the southern half relics of the Jalangi oscillations are noticeable in quite a large number of depressions forming bils. The principal amongst them are: the Sujanpur bil, the Noāpārā bil, the Hansdanga bil, the Syāmnagar bil, the Āmghātā bil, the Bhālukā bil, the Nalan bil, the Kopae bil, the Nadari bil, and the Sattuliā bil.

Khāls: the Kalannanadi $kh\bar{a}l$, the Gurguriā $kh\bar{a}l$ and the Jhornadi $kh\bar{a}l$.

- 7. Navadwīp thana: Lying in between the Bhāgīrathī and the Jalangi this thana shows evidences of oscillations of both these rivers. The Sujanpur bil, the Bāmanpukur bil, the Māyāpur bil, the Āmghātā bil, the Nutan bil and the Gurguriā khāl are the principal amongst them.
- 8. Krishnaganj thana: Like Chāprā thana this thana also appears to have been on the course of the old Bhairab. At present, the Ichhāmati flows through the thana and the Churni takes off just from the south. This area was under the oscillations of the Māthābhāngā till very recently. And quite a number of depressions in the nature of bils are seen. The Dāmodar bil, the Dharmadaha bil, the Mājdiā bil, the Bānpur bil and the Balsakuti bil are the principal amongst them.
- 9. Shāntipur thana: There are wide stretches of low land in this thana which formed old beds of channels of the river $Bh\bar{a}g\bar{\imath}rath\bar{\imath}$. These beds are being gradually filled up. The principal bils in this area are the Nutan bil and the Pasha bil. The $kh\bar{\imath}ls$ are the Mans $\bar{\imath}daha$ $kh\bar{\imath}l$, the Margangni $kh\bar{\imath}l$ and the Harinadi. The western side of the area is still subject to some amount of spill from the $Bh\bar{a}g\bar{\imath}rath\bar{\imath}$.
- 10. Hänskhäli thana: This thana on the lower course of the Mäthäbhängä has been subject to frequent changes of the courses of the Ichhämati, the Churni and the Jhor and the numerous distributaries of these rivers formed a network in this thana area. There are many bils and khāls, the principal amongst them are: the Padmā bil, the Dhabuni bil, the Balsākuti bil, the Abhangi

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bil, the Singā bil, the Ādhiāri bil, the Rāmnagar bil and the Chātrā bil; the principal $kh\bar{a}ls$ being the Goragangani $kh\bar{a}l$, the Gauriā $kh\bar{a}l$ and the Jhornadi.

- 11. Rānāghāt thana: This thana is traversed by the Churni following a meandering course while the Ichhāmati flows along its eastern boundary. The Hāṅgar khāl and the Gauriā khāl drain the eastern half of this thana and join Ichhāmati at its right bank. There are comparatively lesser number of bils in this thana, the principal amongst them are: the Chakhā bil, the Baramāshi bil, the Āmdā bil, the Paltār bil, the Samghāṭā bil, the Tatal bil, the Hussainpur bil, the Changtā bil, the Bhabankabali bil and the Bāhir bil. The khāls are the Mangar khāl and the Gauriā khāl.
- 12. Chākdaha thana: There are many khāls and bils in this thana which are mostly the abandoned old courses of the Bhāgīrathī and its distributaries. They are Jayati bil, the Godar bil, the Jhakir bil, the Solākir bil, the Chamrakumar bil, the Kachur bil, the Dubliā bil, the Bara bil, the Balsar bil, the Chāndmāri bil, the Ghatugāchi bil, the Pectar bil, the Peror bil, the Kuliā bil, the Dhokrādaha bil, the Māṭikāṭā bil, the Datta bil, the Mathurā bil. The principal khāls are Murali khāl and the Tangrā khāl.
- 13. Haringhātā thana: The river Jāmuriā, which is an extension of the Mathurā bil, divides this thana into two halves. The northern half has many bils. The principal amongst them are—the Parmājhdiā Māgurā bil, the Balli bil, the Bhomrā bil, the Pechar Khalsi bil and the Peror bil. In the southern part, the Chandāl bil, the Baruni bil, the Nārāyan bil and the Mediā bil are the principal ones.

GEOLOGY

The district of Nadia is an alluvial formation of the rivers belonging to the Gangā-Bhāgīrathī system. On the top surface it appears to be formed of recent alluvium, but below the top surface there is evidence of the existence of an underlying plinth of older alluvium formed of different material. "That before the present upper strata of the delta were laid down, it appears that there was an older delta composed of materials totally different to those deposited by the Ganges. A stratum of yellow clay and sand appears to underlie that upper and newer strata of blue clay and sand. At Chowkhally on the lower Hooghly the yellow clay is about 60 ft. from the surface as shown by the borings taken in 1914. At Kusthia there are outcrops of the same

stratum and the general outcrop appears to be roughly round the extreme edges of the present delta. ... It appears that this delta was laid down by rivers issuing from the north or north-east and that presumably the Ganges had not then become a factor in this case. The old delta was depressed and the Ganges appears to have then entered upon the scene and began forming the new delta on top of the old from the neighbourhood of Rajmahal."

The following is a brief summary of the natural soil regions found in this district. The parent material is Ganges (gangā) alluvium which under different conditions form three dissimilar soil associations:

- i) Ganges riverine lands,
- ii) Ganges flat lands, and
- iii) Ganges low lands.

The distribution of these different categories of lands are as follows:

- i) Ganges riverine lands: These are formed of soils on recent alluvial fans, flat plains or other secondary deposits having undeveloped profiles below which lie unconsolidated materials. No accumulation of clay or lime is found in the subsoil. This shows the surface to be of recent formation, and downward leaching of calcareous material has not taken place to any appreciable extent. Deposition of alluvium of different textures in different layers in an unsystematic manner is also evident. Soils of this kind occur in the following areas:
 - Karimpur: In the portion bounded by the road from the ferry to Nārāyanpur to the police station Karimpur and the Jalangi.
 - Tehatta: (a) The portion lying west and north-west of the road from the post office Betāi to Tehatta and west of the road from Tehatta to the G.T.S. at Palāshipārā.
 - (b) The area between the Bhairab and its tributary on the left bank.
 - Palāshi (Plassey): The part on the north of the road from Bhāga to Kālīganj.
 - Nākāsipārā: (a) West of the road running from Khājuriā via Murāgāchhā G.T.S. and Gotpārā to Bhāga.

¹ C.Addams-Williams, 'History of the Rivers in the Gangetic Delta quoted in S.C. Majumdar, Rivers of the Bengal Delta, p. 21.

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(b) East of the road from Khājuriā to Pathiābāri via R. S. Bethuādahari.

Krishnanagar: The entire area except the portion lying between the roads to Hānskhāli and Krishnaganj.

Chapra: In the south-eastern part.

Hānskhāli: The portion lying in the area south of the road to Hānskhāli from Krishnanagar and east of the Churni.

Shantipur: The entire police station.

Rānāghāt: (a) Via Nilnagar in the south-west of the road form Chākdaha to Rānāghāt, except the portion on the east of Nilnagar and G.T.S. Paschim Noāpārā and the north of the Churni.

(b) The triangle enclosed by the railway lines going to Bongāon and Bānpur and villages Roynagar and Hijuli.

Chakdaha: On the west and north-west part.

Haringhātā: On the west of Chākdaha-Haringhātā Road.

ii) Ganges flat lands: These are formed of soils on young alluvial fans, old flat plains or other secondary deposits having somewhat developed profiles underlain by unconsolidated material. There is a slight accumulation of clay in this subsoil as a result of leaching from the surface. Soils of this kind are located in the following areas:

Karimpur: Northern part of the police station lying north of the road from Karimpur to the Ferry Ghat on the Mathabhanga at Raghunathpur.

Kālīganj: South-western part of the police station lying south-west of the road from Kālīganj to Bhāga.

Nākāsipārā: North-eastern and central part of the police station. The area is roughly from Khājuriā to Gotpārā, to Bhāga to G.T.S. at Chhota Simuliā to Uttar Bāhirgāchhi, to Patkiabāri to Nākāsipārā and Khājuriā.

Chāprā: Southern part lying south of the line from Basanduliā to Padmamālā.

Hänskhäli: In the north-west and southern part.

Rānāghāt: in the northern part and south-east part.

iii) Ganges low lands: This soil shows a good accumulation of clay on the surface which is underlain by unconsolidated material, more often of riverine profile. These are clay pan soils, in which the pans are relatively near to the surface and are partially impervious to the downward movement of water. The subsoil shows in places considerable accumulation of calcareous and calco-ferrous material which do not disintegrate in water. The general distribution of this soil given below would show that it is situated mainly along the course of the old Bhairab. Such soil is situated in the following areas:

Karimpur: Entire southern portion, south of the road taking off from Ferry Ghat Nārāyanpur to Karimpur and to Raghunāthpur on Māthābhāngā.

Tehatta: Entire north and north-eastern part, east of the road from G.T.S. Krishnanagar to Tehatta, to Taranipur and the east of the loop of Jalangi.

Chāprā: North-western corner bounded by Tehatta-Chapra Road and a line approximately from Basanduliā to Padmamālā situated on Chāprā-Bājitpur Road.

Hānskhāli: On the south-east and north-west corner.

Rānāghāt: On its east and north-east portion.

Chākdaha: On its south-eastern fringe.

Haringhātā: Its eastern half.

The different soil characteristics which give these soil associations their distinguishing features and which can be easily distinguished in the field are given in the following table.

	GANGES RIVERINE LANDS	LANDS	GANGES FLAT LANDS	GANGES LOW LANDS
Profile development	Immature		Slightly mature	Lacustrine deposit
Colour	Olive: Olive-brown to light olive-brown. 5Y4/4; 2.5y-4/4 to 2.5Y5/4	n to light [4; 2.5y-	Olive to olive-grey, light olive-brown to dark greybrown and yellowish-brown to dark-brown 5Y5/4 to 5Y5/2, 2.5Y4/4 to 2.5Y/4 and 2.5Y/4 and 10YR4/3 to 10YR5/4	Olive-grey; olive to black; light olive-brown to dark grey-brown. 5Y5/2 to 5Y2/1 to 2.5Y4/4 to 2.5Y4/2 and 10YR4/3.
Concretions	ΞZ	जयते	Nii. In a few places, evidence of beginning of dolomite nodulation can be met, when digging ponds at a depth of 8' to 10'.	Very small gritty particles of iron manganese concretions. Dolomite concretions are rare but may be met at a few places.
Layerization	Distinct, irregular, alluvial layers	, alluvial	Clear cut layers. The layers becoming heavier with depth.	Clear layers.
Hd	7.0-8.5		5.5-7.5 (depending upon the degree of leaching)	5.5-8.0 (depending upon the accumulation of partially decomposed organic matter)

	GANGES RIVERINE LANDS	GANGES FLAT LANDS	GANGES LOW LANDS
Lime as CaCo3	1-4 per cent	0.5 per cent	1-4 per cent
Sesquioxide	Immobile	Very slightly mobile, moving downwards	Slightly mobile
Clay per cent	Average to low	Average to low; increase with depth	High, decreases with depth
Sol. Salts	Low, occasional patches of high salinity	Low	Higher
Lime saturation	Above 90 per cent	Above 80 per cent	Above 60 per cent
Drainage	Very good	Good	Impeded

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Flora Vegetation The district is a flat alluvial plain and there are no marked botanical divisions in the district. The vegetation of Nadia district is, therefore, classified by the type of soil and its watercontent and other biotic factors. The broad classification, therefore, may be:

- I. Vegetation on roadside and waste places;
- II. Vegetation on agricultural fields; and
- III. Vegetation in pools, ponds and rivers.

I. VEGETATION ON ROADSIDE AND WASTE PLACES:

The most important feature of the roadside vegetation is the numerous exotic or indigenous trees; among these the following are common: Ficus bengalensis L, Ficus religiosa L, Tamarindus indica L, Mangifera indica L, Litchi chinensis Sonn., Terminalia catappa L, Polvalthia longifolia (Sonn.) Thw., Bombay ceiba L, Swietenia mahogoni L, Swietenia macrophylla King, Mimusoos elengi L, Alstonia scholaris Br., Azadirachta indica Juss., Pongamia pinnata (L) Pierre, Pterygota alata R. Br., Putraniiva roxburghii Wall, Hibiscus populneus L., Samanea saman (Jacq.) Merr., Pterospermum acerifolium Willd, Kleinhovia Bospita L. Lagerstroemia speciosa (Li.) Pers., Acacia arabica Willd, Artocarpus integra (Thunb.) Merr., Delonix regia Ref., Spondias pinnata (L.F.) Kurz., Coconut (Cocos nucifera L), Arecanut (Areca catechu), Wild date-palm (Phoenix sylvestris Roxb.), Palmyra-palm (Borassus flabellifer L) and different species of bamboos are also found. Many other exotic palms are grown in the gardens for ornamental purposes.

Flowering plants in the gardens include the following common perennials, besides many indigenous and exotic annuals: Michelia champaka L (Chāmpā), Artabotrys uncinatus (Lamk) Merr. (Kānthāli Chāmpā), Hibiscus mutabilis L (Sthalpadma), Mibiscus rosa-sinensis L (Jabā), Murraya paniculata L Jacq. (Kāminī), Sesbania grandiflora Pers. (Bak), Quisqualis indica L (Rangoon creeper), Ixora coccinea Linn., Ixora parviflora Vahl (Rangan), Nyctanthes arbor-tristis L (Sephālikā), Jasminum pubescens Willd (Kunda), Jasminum sambac Ait (Bel), Ervatamia divaricata (L) Burk (Tagar), Gardenia florida Willd (Gandharāj), Bougainvilles spectabilis Willd (Bāgān bilās), different species and varieties of Rose (Rosa centifolia L, etc.).

The following plants are common on waste places: Cyperus kyllinga Endl., Cyperus rotundus L, Cynodon dactylon Pers., different species of Panicum, Cammelina benghalensis L, Paperomia pellucida Kunth, Pouzolmia indica Gaud, Amaranthus spinosus L, Boerhavia diffuse L, Cassia tors L, Cassia fistula L, Acalypha indica L, Pedilanthus tithymaloides Poit., Abutilon indicum Sweet, Evolyulus nummularius L, Heliotropium indicum L, Ecbolium linneanum Kurz, Tridax procumbens L, Achyranthes aspera L, Chrozophora plicata Juss., Croton bonplandianum Bailly, Euphorbia pilulifera L, Oldenlandia corymbosa L, Dentella repens (L) Frost, Jatropha gossypifolia L, Datura metal L, Xanthium strumarium L, Calotropis gigantea R. Br., Clerodendrum viscosum Vent, Lantana camara var. aculeata (L) Moldenke, etc.

II. VEGETATION ON AGRICULTURAL FIELDS:

In the agricultural fields many species of plants occur as weeds. The weed flora of the paddy fields on high lands or dried up fields after the paddy season differ from the low marshy fields of the rainy season. On the first types of fields are to be seen: Croton bonplandianum Baill, Phyllanthus niruri L, Euphorbia pilulifera L, Euphorbia parviflora L, Oldendandis corymbosa L, Dentella repens (L) Forst, Brachiaria reptang (L) Gard. et Hubb. Cyperus rotundus L. Cyperus pygmacus Rottb are common. In the low agricultural fields, marshy or flooded, besides many algae and two Pteridophytes, Ceratopteris thalictroides Brogn. and Marsilea quadrifolia L, the following angiosperms are common, Hygrophila auriculata (Schumach) Heine, Ipomoea aquatica Forsk., Nymphoides cristatum (Roxb.) O. Ktze, Utricularia stellaris L. f., Jussiaea repens L, Jussiaea parennis (L) Brenan, Aeschynomene indica L, Commelina benghalensis, etc.

The cultivated crops consist of vegetables of various kinds, cereals, pulses, fibre plants, oil-seed crops and other food accessories. Common vegetables are the following: Potato (Solanum tuberosum L); Brinjal (Solanum melongena L); Patal (Trichosanthes dioica Roxb.); Gourd (Cusurbita maxina Duch.); White Pumpkin (Benincasa hispida Thumb. Cogn.); Bottle Gourd (Legenaria leucantha) (Duch) Rusby; Cucumber (Cucumis sativas L); Puin (Basella rubra L); Tomato (Lycopersicon esculentum Mill.); Radish (Raphanus sativas L); Carrot (Daucus carota L); Beet (Beta vulgaris L); Cabbage, Cauliflower and Knol-Khol (different varieties of Brassica oleracea L). Rice (Oryza sativa L)

is the most important cereal cultivated in the district. Wheat (Triticum vulgare Vill); Maize (Zea mays L) and Barley (Hordeum valgare L) are occasionally cultivated. Musur (Lens esculenta Moen), Khesārī (Lathyrus sativas L); Mung (Phaseolus radiatus L and P. radiatus var. aureus Pr.); Matar (Pisum sativum L) and Gram (Cicer arietinum L) are cultivated as field crops. Arhar (Cajanus cajan (L) Mill. sq.) is cultivated to a small extent. Among the oil-yielding crops different varieties of mustard, for example Brassica nigra Koch., Brassica Juncea Hook. f. et Thom. and Brassica campestris L. var. sarson Pr. are cultivated as cold weather crop. Cultivation of Sugarcane (Saccharum officinarum L) is common in this district.

III. VEGETATION IN POOLS, PONDS AND RIVERS:

Besides many algae, the following Pteriodophytes — Azolla pinnata R. Br., Salvinia cucullata Roxb. and Marsilea quadrifolia L. are common in the ponds of this district. Among them the first two are free—floating and the third one is commonly found in the edges of ponds and ditches. A list of common aquatic angiosperms is given below: Nymphaea nouchali Burm. f., Nymphaea stellata Willd., Nelumbo nucifera Gaertn., Aeschymomene indica L, Aeschynomene aspera L, Neptunia oleracea Lour, Jussiaea repens L, Trapa bispinosa Roxb, Enhydra fluctuans Lour, Nympoides cristatum (Roxb.) O. Ktze, Ipomoea aquatica Forsk, Utricularia stillaris L.f., Ceratophyllum demersum L, Hydrilla verticillata (L.f.) Royle, Vallisneria spirrallis L, Pistia L, Lemna trisulca L, Spirodela polyrhiza (L) Schleid, Eichhornia crassipes (Mart) Solms, etc.

At present there are hardly any forest in the district, but early references show that the Sunderban forest at one time spread northwards up to Nadia. Even as late as the middle of the 18th century there were forest in the south and south-eastern parts of Nadia where Maharaja Krishna Chandra Roy often led hunting expeditions. From the account of Stavorinus (1785) we find that there were forests containing tigers and wild beasts in Chākdaha thana of the district. Over the banks of the Māthābhāngā there were large number of trees like a forest belt and these trees and forests were cut down to prevent their falling into the river to keep the water discharge clear. Bishop Heber's account (1824) show that there was extensive tract of forests in Krishnaganj thana. At present all the forest has been cut down owing to increase of population. But even up to 1942 there was a jungle

Forests

in Betai (P.S. Tehatta) abounding in wild boars where the game of pig-stiching was sometimes practised.

Since 1947, however, some headway has been made by the Forest Department of the State in acquiring pieces of land for forest plantation. The following report of progress made in the matter of planting forests in the district has been obtained by courtesy of the Conservator-General of Forests, West Bengal. There are no reserved or private forests in the district. No area has been vested by private parties yet for raising forest plantations. The Bengal Private Forests Act has not been extended to the district. There are six plantations on Government acquired land, which are as follows:

- (1) Bethuādahari and Jagpur plantations, 1946-51. Area: 602.42 acres. The principal species planted in this plantation are teak, sissoo and $g\bar{a}m\bar{a}r$ for timber and minjri, $b\bar{a}bul$ and arjun for fuel.
- (2) Hijuli at Rānāghāt, 1949-51. Area: 85.33 acres. The principal species planted in this plantation are teak, sissoo, minjri, bābul, arjun and ākāśmani.
- (3) The Debagrām plantation, 1950. Area: 76.59 acres. The principal species planted in this plantation are gāmār, bābul, miniri, etc.
- (4) The Mahatpur plantation, 1952. Area: 519.74 acres. The principal species planted are teak, $g\bar{a}m\bar{a}r$, sissoo, minjri, arjun and $\bar{a}k\bar{a}\acute{s}mani$.
- (5) The Bāhādurpur plantation, 1953. Area: 397.00 acres. The principal species planted are the same as in No. (4).
- (6) The Khisma Rādhākāntapur plantation. Area: 242.00 acres. The principal species planted are as in No. (4).

The total area under plantation is, therefore, 1,923 acres or about 3 sq. miles. The timber plantations are teak, sissoo, $g\bar{a}m\bar{a}r$, toon and simul, and the fuel species are arjun, nim, $b\bar{a}bul$, cassia siamea, $j\bar{a}m$ and $debd\bar{a}ru$.

The exotic species that are being tried are nārikel (sterculia alata) and khair from North Bengal and wattle from Australia.

The Forest Department has no teak plantation more than 10 years old. The area under pure teak is about 120 acres. Wherever the terrain of the country is undulating, plantations are raised on ridge lines along the contour.

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FAUNA

With the advance of cultivation wild animals have become scarce in the district, the only wild animal occasionally to be met with are a few jackals and leopards and some wild pigs. Black-faced monkeys ($hanum\bar{a}n$) are still to be found mostly near human habitation.

Game-birds

Of the game-birds some snipes and wild ducks and a few other kinds of aquatic birds are to be found in the marshy and bil areas in the district. Some partridges are to be found within the grassy patches.

Reptiles Fish Python and cobras are to be found all over the district.

Fish abounded in most of the rivers and bils. Following is a list of different types of fish available.

Scientific Name	English Name	Bengali Name
Catla Catla (Ham)	Catla	Kātlā
Cirrhina Mrigala (Ham)	Hamilton's Carp	Mirgel, Mirkā, Mirik
Labeo Calbasu (Ham buch)	Carp	Kālbāsu, Kalbāus, Kursā
Labeo Bata (Ham)	Carp	Bhāngan bāṭā, Bhāgnā
Cirrhina reba (Ham)	Carp	Rāichari bāļā, Rāilbāṭā, Kharke bāṭā, Reba
Labeo rohita (Ham buch)	Carp	Rohu, Rohit, Rui
Notopterus notopterus (Pallas)	Feather back	Pho!oi, Phali
Notopterus chitala (Ham)	Feather back	Chital
Barbus Barma (Ham)	Carp	Saral punti, Sarņa punti
Barbus conchonius (Ham)	The Rosy (Red) Splendid	Kānchan punti
Barbus tetrarupagus	Barb of aquarist	Tit punti,
(MC. Clall)	Carp Mimow	Tite punti
Gadusia chapra (Ham)	Herring	Khairā, Coori, Chaila,
Anabus testudineus (Bloch)	Climbing perch	Koi

Scientific Name	English Name	Bengali Name
Hete ropneustis fossilis (Bloch)	Cat fish	Singh, Singhi
Clarias batrachus (Linn)	Clarid catfish	Mägur
Ophiocephalas punctatus (Bloch)	Black Baboosi of Europeans, Murrel	Laṭā, Ṭāki
Ophicephalus gachua (Ham)	-do-	Chang
Colisa fasciatus (Bl. schn)	The striped/banded Giant Geurami of aquarist	Khalisä
Wallago otter (Bloch)	Fresh water shark	Boāl, Boyāli, Boyāri
Tetrodon cutcutia (Ham Buch)	Globe fish puffer	Ţepā, Kaļkaļe
Lepedocephalicthys Guntea (Ham)	Loaches	Gunțe, Poiā
Mastacembalus pancalus (Ham)	Mud Eel	Pānkāl, Torsā, Gochi
Amblypharyngodon mola (Ham)	TATTAL	Mouralā, Mowā, Mowkā
Pseudentropius murius (Ham)	Cat fish	Gāruā, Garchā, Puniābāchā
Amphipnous Guchia (Hem. Buch)	Mud Eel	Kuchiā, Kunche
Lois gnathus ruconius (Ham Buch)	Slip mouth	Rukunchāndā
Silonia silondia (Ham)	Silver belly fresh water shark	Shilond, Shilon
Ambassis nama	Glass Fish	Kāṭchāndā,
(Ham Buch)		Ţākchāndā
Ompok bimaculatus (Bluck)	Butter fish	Kānee Pābdā
Bagarius giuris (Hamilton)	Goonche, Fresh water tiger shark	Bāghā āiḍ, Bag āiḍ
Clossogobius guiris (Hamilton)	Gobies	Bele
Ophioaphalus morulius (Ham)	Merssels, Snake headed Mussel	Sāl, Gajār

Scientific Name	English Name	Bengali Name
Mystus tengra (Ham)		Gujri țengrã, Bajari țengrā
Mystus viltatus		Pati !engrā
(Block) Mystus Blukesi Dey		Tengrā
Mysius Biukesi Dey Pseudentropius	Cat fish	Bātāsī
•	Cat non	
garua (Haṃ) Esomus dansuis	Flying Barb	Dānrikā, Dadhikā
Esomus aansais (Ham)	Tiying Duto	20 mm 11 mm 1
(114111) Anguilla bengalensis	Fresh water Eel	Bāim
Angunia bengaiensis (Gray & Handon)	T TOSH WATER 2201	
(Gray & Handon) Wandus nandus	The Nandus	Mene, Bhedā
(Cuv. & Val)	The runaus	1120110, 411019
(Cuv. & v ui) Xonotodon cancila	Gar Fish	Känkle, Boge
		,
(Hamilton)	Fresh water shark	Aid
Mystus seeughala	Tican water and	2204
(Sylles)	Indian Shad	Hilsā, Ilish
Hilsa ilisha (Ham)	Anchovies	Phessā, Teltāprā
Engraulis Telara	Allehovies	Teltāmpri
(Ham Buch)	Rita	Rițā, Rițe
Rita Mita (Ham)		Pāngās
Pangasius pangauius	1 Testi water shark	Langus
(Ham) Sciuena Coitor	THE CONTRACTOR OF THE PARTY OF	Bholā
(Ham Buch)	सन्धमेव जयत	
Lates Calcarifer	Cock up	Bhe!ki
(Bloch)	Cook up	
Crossocheilus latia	exer-=	Kālā bātā,
(Ham)		Bātke
Palaomon careinus	Prawn	Galdā Chingdi
Panaeus casinatus		Bāgdā Chingḍi
Metapena ous	Shrimp	Kucho Chingdi
hrevicornis	Outmit	
Paratelphusa	Fresh water crab	Kānkḍā
· · · · · · · · · · · · · · · · · · ·	1 103H Water Clab	- Section
spinigera		

CLIMATE

The climate of this district is characterized by an oppressive hot summer, high humidities all the year round and well distributed rainfall during the south-west monsoon season. The cold season is from about the middle of November to the end of

February. The period from March to May is the summer season. The south-west monsoon season commences about the beginning of June and lasts till the end of September. October and the first half of November constitute the post-monsoon season.

Records of rainfall in the district are available for only three Rainfall stations for periods ranging from 63 to 91 years. The details of the rainfall at these stations and for the district as a whole are given in tables 1 and 2. The average annual rainfall in the district is 1310.4 mm. (51.59"). The rainfall is not uniform throughout the district. Haringhata in the southern part of the district gets only 1110.4 mm. (43.72") on the average in a year while Krishnanagar, further north in the middle portion of the district, has an annual rainfall of 1473.6 mm. (58.01"). Unfortunately, all the three rainfall stations are situated in the southern half of the district. However, from the general trend, it would appear that in the northern parts of the district rainfall may be significantly higher than that at Krishnanagar (that is, more than 1473.6 mm. or 58.01"). The rainfall during the monsoon season June to September constitutes about 71 per cent of the annual rainfall, August being the rainiest month. The variation in the rainfall from year to year is not large. In the fifty-year period from 1901 to 1950, the highest annual rainfall amounting to 149 per cent of the normal occurred in 1913, while 1935 was the year with the lowest rainfall which was 65 per cent of the normal. In the same fifty-year period, rainfall less than 80 per cent of the normal occurred in three years, two of them being consecutive. Considering the individual stations, rainfall less than 80 per cent of the normal occurred in five consecutive years during 1934-38 at Rānāghāt and in four consecutive years at Rānāghāt and Haringhātā during 1942-45 and 1918-21 respectively. Two consecutive years of such low rainfall occurred once at Krishnanagar. It will be seen from table 2 that the annual rainfall in the district was between 1100 and 1600 mm. (43.31 and 62.99") in 36 years out of 50.

On an average there are 75 rainy days (that is, days with rainfall of 2.5 mm. or more) in a year. This number varies from 68 at Haringhātā in the south to 81 at Krishnanagar.

The heaviest rainfall in 24 hours recorded at any station in the district was 293.9 mm. (11.57") at Krishnanagar on September 20, 1900.

Temperature

There is only one meteorological observatory in the district and it is located at Krishnanagar. Records of the station are available for a long period of years. Temperatures and other meteorological conditions at this station may be taken as representative of those in the district as a whole. The cold season commences by about the middle of November when temperatures begin to decrease. January is the coldest month with the mean daily maximum temperature at 25.9°C (78.6°F) and the mean daily minimum temperature at 11.0°C (51.8°F). In association with passing western disturbances in the cold season, the district is sometimes affected by cold waves and on such occasions the minimum temperature may go down to 3 or 4°C (37.4 or 39.2°F). By about the end of February the temperatures begin to rise. While the night temperatures reach a maximum only in the south-west monsoon season, day temperatures usually reach a maximum in April when the mean daily maximum temperature is 37.1°C (98.8°F). The heat in summer is often oppressive on account of the high moisture content in the air. There is welcome relief from the heat although only temporarily when thunder-showers occur on some days in this season. With the onset of the southwest monsoon by about the first week of June, the day temperatures drop appreciably but the night temperatures continue to rise. With the increased humidity in the air and continuing high night temperatures, even during the monsoon season, the weather is often uncomfortable in between the rains. The monsoon withdraws early in October and temperatures begin to drop. The drop, particularly in night temperatures, is more rapid from about the middle of November.

Humidity

Cloudiness

Winds

The highest maximum temperature recorded at Krishnanagar was 45.9°C (114.8°F) on May 6, 1960. The lowest minimum was 3.9°C (39.0°F) on January 19, 1934 and on February 5, 1886.

Humidity is high throughout the year. But in the summer months, March and April, the relative humidity is comparatively less, particularly in the afternoon, being about 40 to 45 per cent.

Skies are moderately to heavily clouded in May. In the south-west monsoon season the cloudiness increases and skies are heavily clouded or overcast. From October the cloudiness decreases and in the following six months skies are clear or lightly clouded.

Winds are generally light with a slight increase in force in the summer and monsoon seasons. Winds blow mostly from directions between south and east in May and in the south-west monGENERAL 31

soon season. In the post-monsoon and the cold seasons winds are light and variable in direction. In March and April they are mainly from directions between south and west.

Storms and depressions from the Bay of Bengal in May and Special the post-monsoon season often reach the district or its neighbourhood causing high winds and widespread heavy rains. Depressions in the south-west monsoon season also affect the district. Thunderstorms are common in the hot season. These are sometimes violent and are accompanied with heavy rain, occasional hail and squalls. These thundersqualls usually come from the north-west and are hence called 'Nor'westers', locally known as Kālbaisākhī. During these thunderstorms there is a sharp drop in temperature. In the south-west monsoon season also, the rainfall is often associated with thunder. Occasional fog occurs in the cold season.

Tables 3, 4 and 5 give the temperature and humidity, mean wind speed and the frequency of special weather phenomena respectively for Krishnanagar.

सत्यमेव जयत

TABLE 1

Normals and Extremes of Rainfall in Nadia District

ĺ	No.														正 4 5 4 5		Lowest annual rainfall as % of	Heavie in 24	Heaviest rainfall in 24 hours*	
Station	of data	Jan	ف	b. Ma	ır. A	Pr.	Feb. Mar. Apr. May June	fune	July	Aug.	Sept.	Oct. 1	Vov. I)ec. /	Sept., Oct. Nov. Dec. Annual year**			Amount (mm.)	Date	
-		a 12.	7.7	7.2 3	0.0	70.4	40.5	224.8	253.2	276.1	7 27.2 30.0 70.4 140.5 224.8 253.2 276.1 208.3	87.1	87.1 13.7 3.6	3.6	1347.6	177	61	254.0 1	254.0 1930 Sep. 20	
Kanagnat	3	۾	8.0	1.9	2.0	4.0	7.0	11.7	1.9 2.0 4.0 7.0 11.7 15.3 15.2	15.2	10.8	5.0	5.0 0.9 0.3	0.3	74.9	(1947)	(1947)			
		a 12	2.5 2	.5 27.4 39.9	9.9	57.3	159.0	161.4	286.4	271.0	67.3 159.0 161.4 286.4 271.0 196.6 122.7 25.9 3.6	122.7	25.9	3.6	1473.6	156	89	293.9 1	293.9 1900 Sep. 20	
Krismanagar 30	5	٩	0.1	.0 1.8 2.2 4.2	2.2	4.2	8.0	13.0	16.6	15.8	8.0 13.0 16.6 15.8 11.2 5.5 1.2 0.3	5.5	1.2	0.3	80.8	(cox1)				
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	ź	5	9.1	8.0.2	6.7	18.5	99.3	196.6	207.8	242.3	.1 18.0 26.7 48.5 99.3 196.6 207.8 242.3 153.2	89.1	89.1 17.5 2.3	2.3	1110.4	179	25.52	279	1956 Sep. 26	
Haringnata	}	ء.	9.8	1.4	1.7	3.5	6.1	10.9	13.7	14.4	1.8 1.4 1.7 3.5 6.1 10.9 13.7 14.4 9.3 5.0 0.8 0.2	5.0	8.0	0.2	67.8	(KrKI)	(683)			
		a 1	1.4 2	4.2 3	2.2	52.1	132.9	227.6	249.1	263.1	1.4 24.2 32.2 62.1 132.9 227.6 249.1 263.1 186.0		99.6 19.0 3.2	3.2	1310.4	149	65			
(District)		ً ۾	6.0	9 1.7 2.0 3.9	2.0	3.9	7.0	11.9	15.2	15.1	7.0 11.9 15.2 15.1 10.4		5.2 1.0 0.3	0.3	74.6	(6161)				

(a) Normal rainfall in mm. (b) Average number of rainy days (days with rain of 2.5 mm. or more). *Based on all available data up to 1956. **Years given in brackets.

TABLE 2
Frequency of Annual Rainfall in Nadia District

(Date 1901-1950)

Range in mm.	No. of years	Range in mm.	No. of years
801-900	1	1401-1500	7
901-1000	1	1501-1600	4
1001-1100	4	1601-1700	4
1101-1200	8	1701-1800	2
1201-1300	8	1801-1900	2
1301-1400	9	1901-2000	i

 $\begin{tabular}{ll} TABLE 3 \\ Normals of Temperature and Relative Humidity: Krishnanagar \\ \end{tabular}$

	Mean daily maxi- mum	Mean daily mini- mum			3	and make in the com-		lative nidity
Month	tempe- rature	tempe- rature		est maximum er recorded		est minimum er recorded	0830	1730*
	°C	°C	°C	Date	°C	Date	%	%
January	25.9	11.0	34,4	1912 Jan, 24	3.9	1934 Jan. 19	76	56
February	28.4	13,2	37.8	1896 Feb. 28	3.9	1886 Feb. 5	72	48
March	34,0	18,8	42.2	1941 Mar. 30	7.8	1898 Mar. 5	66	39
April	37.1	23.3	45.0	1954 Apr. 25	13.9	1886 Apr. 6	70	46
May	36.1	24.1	45,9	1960 May 6	16.7	1893 May 8	71	64
June	33.9	25.8	42.8	1957 Jun. 1	20,0	1907 Jun. 1	81	79
July	38.2	25,9	37.2	1949 Jul. 1	22,2	1955 Jul. 2	84	85
August.	32.1	25,8	36,7	1957 Aug. 21	21.1	1949 Aug. 6	85	84
September	32,4	25.6	37.2	1955 Sep. 20	21.1	1887 Sep. 25	í 83	83
October	32.0	22,8	36,7	1960 Oct. 13	14,4	1935 Oct. 31	76	77
November	29,2	16.8	36.1	1952 Nov. 3	8.3	1934 Nov. 30	72	66
December	26.2	11,8	32,2	1954 Dec. 7	5.0	1937 Dec. 28	76	61
Annual	31.6	20.5					76	66
				*Hours I,S.T.				

TABLE 4

Mean Wind Speed in km./hr.: Krishnanagar

Jan.	Feb.											Annual
1.9	2.7	5.3	8.9	10.3	8.1	6.4	5,6	4.3	2.9	1.9	1.8	5.0

TABLE 5

Special Weather Phenomena: Krishnanagar

Mean No. of days with	Jan.	Feb.	Mar.	Apr.	May	Jun,	Jef.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Thunder	1.1	3.4	5,2	जयते 0.6	16.2	20.7	16.3	16.4	17.1	7.1	0.1	0.2	112.8
Hail	0.0	0.1	0.2	6.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Dust-Storm	0.0	0.0	0.1	9.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
Squall	0.0	0.0	0.0	8.0	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	1.9
Fog	1.7	1.7	2.9	0.5	0.0	0.1	0.0	0.0	0.1	0.1	0.1	1.4	8.6

CHAPTER II

HISTORY

It is difficult to know the geographical location of the present Nadia district in ancient times as geographical names and boundaries have changed leaving hardly any trace of ancient history in the land at present included in the district. It is well-known that the currents of ancient Indian history flowed through the geographical area known in modern times as Bengal or West Bengal but the connexion between that mainstream of ancient history and what might have been Nadia in ancient times is tenuous. Ancient writers refer to two countries in this region, namely Gauda and Vanga. The localities forming the Gauda country according to the late Puranic tradition are: (1) Navadwip (in Nadia district), (2) Shāntipur (in Nadia district), (3) Maulapattana (Hugli district) and (4) Kantakapattana (Kātoyā in Barddhaman district). The tradition would comprise in the Gauda country the present Murshidābād district together with parts of the Nadia, Barddhamān and Hugli districts of West Bengal. A later work describes the Gauda country as lying between the country of Vanga and Bhubanesa. The same work describes Vanga as the land extending from the sea (the Bay of Bengal) to the Brahmaputra.² Kālidāsa in Raghuvamsa places the Vanga amidst the stream of the Ganga. The Vanga of Pala and Sena records seems to have a smaller tract than the old territory known to Raghuvainsa. Even a part of the delta embracing Jessore or certain adjoining tracts came to be distinguished as Upavanga. proper was now restricted to the eastern part of the Gangetic delta. In a later Sena inscription Vanga was divided into Vikrampurabhāga and Nāvya. Nāvya, which means accessible by boat or ship, is a fitting designation of the south-east part of the Gangetic delta which is a labyrinth of rivers and creeks.³ It is worthwhile mentioning here another view: "The indefiniteness of Vanga as a geographical appellation noticeable in early literature disappeared. The entire triangular tract bounded by the Bhāgīrathī, Padmā and the Meghnā estuary, definitely came to bear the impress of the ethnic name Vanga. Thus in the BrhatANGIENT PERIOD

¹ D. C. Sircar, Studies in the Geography of Ancient and Medieval India, Delhi, 1971, p. 122. ² Loc. cit.

³ H. C. Roychaudhuri in *History of Bengal*, Vol. I, ed. R. C. Majumdar, Dacca. 1943, pp. 15-16.

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Samhitā, a work of the sixth century A.D., mention is made of Upavanga, which is commonly identified with some portions of the Gangetic Delta." From these authorities we come to the conclusion that present Nadia district was sometimes part of Vanga and sometimes of Gauda, but not always part of one or the other, and this vagueness has to be accepted as the state of things before the attack on Nadia by Muhammad-i-Bakhtiyar in circa A.D. 1202.

The fact that there was a State in the delta of the Ganga which was powerful enough in the 4th century B.C. to strike awe in the indomitable heart of Alexander, the Macedonian conqueror, is known from Greek sources. It was the Gangaridae State which could muster on the field an army of about 20,000 cavalry, 2,00,000 foot soldiers, 2,000 four-horse battle chariots and 3,000 battle elephants. The existence of this State till the end of the first century A.D. is proved by the statement in Periplus² and by the Geographika Indika of Klaudios Ptolemaios.

Indian sources furnish no material for the history of the Vanga country till the rise of the Guptas. But the Greek and Roman sources continue to mention Gangaridae as a powerful State up to the middle of the third century A.D.

History turns a page with the advent of the Imperial Guptas. Vanga for the first time finds an epigraphic mention early in this period in the Meherauli Iron Pillar inscription of King Chandra who assumed the title of ekādhirāja.3 He engaged in battle in the Vanga country his enemies, who, uniting together, came against him. This is the first clear mention in an epigraphic record of the Vanga country ever being conquered by an outsider.

We are quite in the dark about the successors of the Gupta line in Vanga. Four copper plate grants found in Faridpur district (adjacent to Nadia and in Bangladesh) and one found in Barddhaman district disclose the names of three independent kings having paramount titles, namely, Gopachandra, Dharmaditya and Samāchāradeva. A seal of Samāchāradeva has been found at Nalanda.4 The relation between Vainyagupta and the Gopachandra group of kings cannot be determined, but as many

¹ S. B. Chaudhuri, Ethnic Settlements in Ancient India, Calcutta, 1955.

p. 182.

² W. H. Schoff, Periplus of the Erythrean Sea, New York, 1912, p. 47.

³ Ibid., p. 141, text line 5. Ekādhirāja means Supreme King.

⁴ M.A.S.I., No. 66, p. 31.

names of officers are common to both, it may be presumed that this group directly succeeded Vainyagupta in the same territory. The period covered by these four reigns is nearly a hundred years from about A.D. 500 to A.D. 600. The political history of Vanga for about 150 years thereafter is obscure till the veil lifts again with the rise of the Pālas.

After the eclipse of the reign of the Guptas of Magadha, Śaśāṅka became a powerful ruler of Gauḍa which generally meant a part of Bengal to the west of the Bhāgīrathī and at times included portions of North Bengal. Śaśāṅka contended for supremacy in Northern India first with the Maukharis and later with Harshavardhana. Shortly after the death of Śaśāṅka, his capital Karṇasuvarṇa, (identified with Rāṅgāmāṭi in Murshidabad district to the west of the Bhāgīrathī) was occupied by Bhāskaravarman, King of Kāmarūpa. The Kingdom of Karṇasuvarṇa might have comprised portions of Nadia, Barddhamān, Birbhum and Murshidabad districts.¹

A Prākrita Kāvya Gaudavaho by Vākpatirāja shows that Yaśovarman of Kanauj killed the king of Magadha and invaded the Vanga country. The king of Vanga, whose name cannot be ascertained, admitted defeat after a fierce fight.² The occurrence probably took place between A.D. 734 and 747.

The pall of darkness that hangs over the history of Vanga from the death of Samāchāradeva lifts again with the rise of the Pālas in the middle of the eighth century.

The Khalimpur copper plate³ of Dharmapāla states that the noblemen of the country elected Gopāla, son of Vapyaṭa to be the king to obviate the state of anarchy described as mātsyanyāya.⁴ Though the Pālas ruled Bengal for about 400 years and a good number of epigraphs of the dynasty have been discovered, yet none of them make any clear statement of their origin or of the place where Gopāla I was elected king. No Pāla epigraph has been discovered in Nadia district. Whether Gopāla I or Dharmapāla held sway over Vanga or Nadia can only be surmised from the veiled references to their origin in epigraphs and literature.

1bid., Verse 4.

H. C. Ray, The Dynastic History of Northern India, Vol. I, Calcutta,

^{1931,} p. 274. ² Gaudavaho, ed. Sankar Panduranga Pandit, Verses 365-417. ³ Epigraphia Indica, Vol. IV, pp. 243-54,

Dharmapāla appears to have reigned for a little over thirty-two years. The last years of Dharmapāla were peaceful. Though tolerant of all religious beliefs, Dharmapāla was a great patron of Buddhism of the Mahāyāna school. He founded the Vikramaśilā Vihāra in Magadha and a monastery at Odantapurī. The Somapura Vihāra located at Pāhārpur was also founded by Dharmapāla. According to Tāranāth, Dharmapāla founded fifty religious schools.¹ Dharmapāla may rightly be called one of the great luminaries of Bengal. Inheriting a small kingdom of Vanga from his father, he, by the might of his arms and by the astuteness of his diplomacy, raised himself to the status of lord paramount of northern India. Dharmapāla was succeeded in or about A.D. 810 by his son Devapāla.

Devapāla ruled for about forty years. His suzerainty was acknowledged from the Bay of Bengal to the borders of Kashmir, from the Himalayas to the Vindhya range and eastward as far as Kāmarūpa. He had diplomatic relationship with the rulers of Java, Sumatra and the Malay Peninsula.

Devapāla was succeeded by his cousin Jayapāla's son Vigrahapāla I (otherwise known as Sūrapāla I). We know from the Monghyr grant of Devapāla that he had a son named Rājyapāla. Some authorities take this break in the line of succession as a palace revolution and indicate this as the reason for the decline of the glory of the Pāla empire after Devapāla.

For about one hundred and forty years after the death of Devapāla his five weak successors, namely Vigrahapāla I (c. A.D. 850-54), Nārāyaṇapāla (c. A.D. 854-900), Rājyapāla (c. A.D. 908-40), Gopāla II (A.D. 940-60) and Vigrahapāla II (c. A.D. 960-88) continued to rule over the Pāla empire, gradually losing ground to the Gurjara Pratihāras who occupied Magadha and portions of northern Bengal.

After Vigrahapāla II, his son Mahīpāla I of the Pāla dynasty ascended the throne of the Pāla empire. About A.D. 1021-25, Rājendra Chola invaded his territory after defeating Dharmapāla of Dandabhukti (identified with Dāntan in the Midnapur district), Ranaśūra in South Rādha and Govindachandra in Vangāla. The battle between Mahīpāla I and Rājendra Chola was fought somewhere in North Rādha and was either indecisive or Rājendra

Mahīpāla I (c. A.D. 988-1038).

About 3 km. from Krishnanagar on the road to Navadwip is a site called Suvarna-Vihāra. Broken architectural stone-pieces are scattered over the area.

Chola was worsted. Anyway, Rājendra Chola retired and did not attempt to found an empire in Vanga or Rāḍha. The political fate of Vanga, which included Nadia district after this invasion, is not clear.

Mahīpāla I was succeeded by his son Nayapāla, who was succeeded by Vigrahapāla III (A.D. 1055-70).

After Vigrahapāla III, his son Mahīpāla II ascended the throne in *circa* A.D. 1070. He had a short reign of about 5 years and was killed during or soon after a rebellion of Kaivartas in North Bengal by a chief named Divya or Divvoka who became king of North Bengal or Varendrī.

The next real king was Rāmapāla who with great effort collected together as allies a number of previous vassals of the Pala empire and with the help of his maternal uncle Mathanadeva carried war into the very heart of Varendri. It is not known whether Ramapāla occupied Vanga or was suzerain of Nadia district. He was in all likelihood in possession of the entire delta up to Murshidabad district. The Rāmacharita related the names of the vassal kings and allies who helped Rāmapāla in reconquering Varendrī. Nearly all of them belonged to either Rādha or Magadha and unless we identify Vikramarāja of Devagrāma with Devagrāma in Nadia district (of which except the identity of the name there is no other proof), not a single ally was from the delta area of Variga in which Nadia district is situated. The only hint of the Palas being in possession of some part of the delta comes from the Kamouli grant of Vaidyadeva who claims to have fought a naval battle on behalf of his master Kumārapāla (son of Rāmapāla who ascended the Pāla throne in circa A.D. 1120) to quell a rebellion in South Bengal.

Kumārapāla was succeeded by Gopāla III. Hardly any fact of his reign is known. Gopāla III was succeeded by his uncle Madanapāla in *circa* A.D. 1140. He was attacked by the Chodaganga from Orissa and by the Gahadavālas from the west. Most likely, Vijayasena, the founder of the Sena dynasty also attacked him in North Bengal. It was hardly possible for Madanapāla to extend sway over Vanga which must have remained under the Varmans.¹ Govindapāla, the last Pāla king who ruled

śūrapāla II (c. A.D. 1075-?)

Rāmapāla (A.D. 1077-1120)

Nayapāla (c. A.D. 1038-55) Mahīpāla II (A.D. 1070-75)

Gopāla III (c. A.D. 1125-1140)

Madanapāla (c. A.D. 1140-1155)

The Varman dynasty laid the foundation of their kingdom in eastern Bengal on the ruins of the kingdoms of the Chandras about the time of the reign of Nayapāla. The history of the Chandra kings of eastern and southern Bengal is far from clear. The third king of the dynasty, Trailokyachandra possibly ruled during A.D. 875-905.

over only a portion of Magadha, lost his kingdom in A.D. 1162. The last king of the Varman dynasty was Bhojavarman. In all likelihood, the Varmans were ousted by Vijayasena. The Sena kings have claimed themselves to be Brahmakshatriyas of Karṇāṭa origin.¹ Vijayasena is the first real king of that dynasty. The family migrated to Radha and lived for two generations somewhere in Rādha.2 It is said that Sāmantasena, the grandfather of Vijayasena, established a hermitage on the bank of the Gangā and lived there after distinguishing himself in battle in the Karņāța country.3 Hemantasena, the son of Sāmantasena, was the father of Vijayasena. He has been styled as Mahārājādhirāja in the Barrackpur copper plate of Vijayasena, but we do not know where he reigned. If Hemantasena had ruled at all, it must have been over a small principality, somewhere in Rādha.

How the Karnātas of South India came to carve out a kingdom in Rādha has been the subject matter of much conjecture, but hitherto no satisfactory answer to the question has been found. Two inscriptions of the reign of Vijayasena, two of the reign of Vallalasena, his son, eight of the reign of Lakshmanasena have hitherto come to light. In none of these is any indication given of how they came to occupy a position in Rādha. In the absence of any mention in the records of the Senas about the way in which they came to Bengal, we may look into the records of the Karnata Chalukyas who had about the time crushed the Paramāra power and the Kalachuri power and were making a meteoric rise to influence the politics of northern India. A reading of the date of the Barrackpur copper plate of Vijayasena makes his date of accession uncertain by about thirty years. The two proposed dates are A.D. 1095 and A.D. 1125.4 It is hardly likely that Vijayasena could have made his debut so long Rāmapāla was alive, for, had he crossed swords Rāmapāla, it would have been mentioned in the Rāmacharita. Moreover, we know that Ramapala was successfully meddling in the politics of Orissa and had defeated the eastern Ganga king and placed his own nominee there.5 Unless Rāmapāla had firm control over Rādha, a successful campaign in Orissa

¹ Vide 'Deopārā Inscription' in Epigraphia Indica, Vol. I, pp. 305 ff.

Verse 5.

2 Vide 'Sitahati copper plate' in Inscriptions of Bengal, No. 68 VV 3, 4.

3 Vide 'Deopara Inscription', Verses 8-9.

4 R. C. Majumdar, Bāṅglā Desher Itihāsa, p. 82.

5 R. C. Majumdar, History of Bengal, p. 163.

would have been impossible. We would, therefore, take the date of accession of Vijayasena as A.D. 1125. His grandfather Sāmantasena, therefore, is likely to have come into Rādha and founded his hermitage about fifty years earlier. There is reason to believe that Lakshmanasena, the grandson of Vijayasena, took part in the wars of Vijayasena in Kalinga and in Varendrī. To have a grandson fit for battle when Vijayasena started his war of aggrandizement, must mean that Vijayasena was advanced in years by the time he occupied Rādha and East Bengal. The arrival of Sāmantasena in Rādha was thus at least fifty years prior to the accession of Vijayasena.

The rise of Vijayasena was helped by the uncertain political condition following the death of Rāmapāla. Anantavarman Chodaganga renewed his attacks and if the Vallālacharita is to be believed, Vijayasena helped Anantavarman Chodaganga. In all probability, this attack by Anantavarman finished the Varman dynasty and Vijayasena took possession of their territory. Vijayasena must have got hold of the territories of the Varmans without much effort because none of the Sena epigraphs speak of any war with the Varman kings.

Vijayasena was succeeded by his son Vallālasena in circa A.D. 1158. Vallālasena is remembered in Bengal for his peaceful pursuits. He is credited to be the author of two books, namely, Dānasāgara, a treatise on Smṛiti, and Adbhutasāgara, a book on astrology.

Bengal traditions recorded in the Kulaśāstras accredit Vallālasena as the creator of kulinism in Bengal. But it is strange that none of the two records of Vallālasena, nor any of the eight records of his son Lakshmanasena, make any reference to kulinism in naming the Brāhmanas who received the grants. This casts doubt on the veracity of the statements of the Kulaśāstras.

Vallālasena was succeeded by his son Lakshmaņasena in circa A.D. 1179.² In the Sena dynasty he, for the first time, assumed the title of Gaudesvara. This would mean that the Pāla empire was finally liquidated by him. He defeated the Gahadavala king of Vārāṇasī, obtained subservience of the king of Kāmarūpa and conquered Kalinga. An inscription of his son Kesavasena

¹ Madhainagar (*Epi, Ind.* Vol. XXVI p. 1) and Bhowal copper plates (*I.A.S.B.*, 1900, p. 467).

⁽J,A.S.B. 1909, p. 467).

We have not accepted the theory that this era La Sam with its epoch in A.D. 1119 began with the coronation of Lakshmanasena or had anything to do with him.

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states that he planted pillars of victory at Puri, Allāhābād and Vārānasī.¹

NADIA

Lakshmaṇasena fought during his entire life-time. In his youth he accompanied his grandfather during the latter's battles against the king of Gauḍa and against Kalinga. As a king he reduced the last vestige of the Pāla power and also wrested Magadha from the Gahaḍavalas. In his old age, he was beset with difficulties. One Dommanapāla declared independence in Khāḍi in the Sundarban area. His Magadhan empire was lost to the Turks and shortly before his death Nadia in Bengal proper was subject to a raid by the Turks under Iktiaruddin Muhammadi-Bakhtiyar.

MEDIEVAL PERIOD The attack on Nadia by Muhammad-i-Bakhtiyar² has been the subject-matter of much controversy. The only detailed account of the Muslim raid on Nadia is given by *Tabāqat-i-Nāsirī* written by Minhājuddin Abu Umār-i-Usmān who held high offices under the Sultans of Delhi. In A.D. 1241, he was appointed Chief Quazi of Delhi. The next year he proceeded to Lakhnauti (Gauḍa, probably renamed Lakshmaṇāvatī by Lakshmaṇasena) and resided there for two years. Evidently, during his stay at Lakhṇauti he collected the materials of his book which was written later.

The source of information of Minhäj about the raid on Nadia were two brothers Nizamuddin and Samsamuddin whom Minhäj found at Lakhnauti and the description was heard by Minhäj forty-four years after the incident. The informants were two common soldiers and as the statement was made a long time afterwards its veracity is open to much doubt. The story as given by Minhäj is as follows according to the translation of Raverty.

"Muhammad-i-Bakhtiyar Khilji pressed on from Bihār and suddenly appeared before the city of Nudiah in such wise that no more than eighteen horsemen kept up with him, and the other troops followed after him. On reaching the gate of the city, Muhammad did not molest anyone, and proceeded onwards steadily and sedately, in such manner that the people of the place imagined that...his party were merchants and had brought horses for sale, and did not imagine that it was Muhammad

J.A.S.B., 1896, pt. I, p. 11.
 circa A.D. 1202 (vide R. C. Majumdar, Bānglā Desher Itihāsa, Vol. I, Calcutta, 1373 B.S., p. 100).

Bakhtiyar, until he reached the entrance to the palace of Rae Lakhmaniah, when he drew his sword and commenced on onslaught on the unbelievers" (p. 557). It is stated that Lakshmanasena was then taking his meals. So sudden was this surprise that he merely fled away by the back door. In the meantime, the main body of Muhammad's force arrived and the city was sacked. Minhāj further states that "Rai Lakhmania got away towards Sankanat and Bang, and there the period of his reign came to a termination shortly afterwards. His descendants up to this time (i.e. c. 1243 A.D.) are rulers in the country of Bang."

- R. D. Banerji rejected this story as myth on the following among other grounds:
 - (1) There is no proof that Nudiah was Navadwip.
- (2) Even if we admit the identity, Navadwīp was never a Sena capital.
- (3) It was impossible for an army to march upon Navadwip without defeating the advance guards of Lakshmaṇasena. If Muhammad had proceeded from Bihār along the Gaṅgā by the way of Rajmahal, then he would have had to meet the main force of Lakshmaṇasena near Lakshmaṇāvatī which at that time lay on the right bank of the Bhāgīrathī. Passage of a small army through the fastnesses of Jhārkhaṇḍ was at that time wellnigh impossible.
- (4) Sultan Mughisuddin Yuzbak conquered Nadia fifty years after Muhammad's alleged raid and issued a new type of coin. Another version of the conquest of Nadia is given by Isāmi in his book Futuh-us-Salātin. This states that Muhammad roamed about masquerading as a merchant. Rāi Lakhmaṇia heard that a Tartar merchant had brought for sale horses and other commodities. Hearing this, the king went out of his palace to the merchant to see his things. There he was suddenly surrounded and taken prisoner after the body-guards were killed.

Of these two statements, that of Minhāj is at least verified to be correct in part. The sons of Lakshmanasena did rule in East Bengal after the alleged incident. This fact Minhāj knew for certain from the political sources in Lakhnauti to which he had access. Minhāj's account does not say that Lakshmanasena was taken prisoner, while the account of Isāmi compiled fifty years later says so. This obviously means that as with time the

Muslim hold on Bengal was increasing, the story of the attack on and the discomfiture of the last great king of this area was twisted in a manner suited to the vanity of the conquerors.

While later history shows that the raid on Nadia by Muhammad Bakhtiyar started an epoch in the history of Bengal, the immediate effect of that raid on Nadia does not appear to have been very much perceptible. According to the colophon of a manuscript of the Saduktikarnāmņita, Lakshmanasena ruled till A.D. 1205, and one or possibly two land grants of Lakshmanasena issued after the raid ascribe all the usual epithets to him. According to Tabāgat-i-Nāsiri, the dynasty of Lakshmanasena ruled in Vanga (Bang) till at least A.D. 1245 or possibly till A.D. 1260. Two sons of Lakshmanasena are known by their copper plate grants. They are Viśvarūpasena and Keśavasena. In their copper plate grants¹, they have both claimed to have fought victorious battles against the Muslim invaders. It appears from Tabāqat-i-Nāsiri that the Muslim kingdom founded by Bakhtiyar included only a portion of Rādha and a portion of Varendrī.2 No portion of Vanga was occupied by the Muslims till at least A.D. 1255. Nadia district, therefore, continued to remain under the Sena kings till this date. It appears from commemorative coins issued by Ikhtiaruddin Yuzbak Tughral Khan or Mughisuddin Yuzbak that Nadia was conquered by him in A.D. 1255. This conquest perhaps only was of the territory around Navadwip for in the list of the Sarkars given in Todar Mall's rent roll of 1582 the area of Nadia district is split into two Sarkārs, Sarkār Mahmudābād which included northern Nadia and Sarkar Satgaon which included the real deltaic Bengal, that is, 24-parganas, western Nadia, southwestern Murshidabad. The remainders of the district of Nadia comprising the southern portion was in Sarkar Sulaimanabad.³ The conquest of Satgaon (Saptagram) by Bahram-It-gin Zaffar Khan in A.D. 1298 during the reign of Ruknuddin Kaikaus might have extended the sway of the Muslim king of Lakhnauti to the area of Nadia included in Sarkar Satgaon of Todar Mall's rent roll. The last king to bear a Sena name till now known is Madhusena who is mentioned with all the royal epithets in

Saśāsa Prithivimimām prathitavīra—varggāgrani sagargayavanānvayapralayakāla-nidro nripati, vide Journal and proceedings of the Asiatic Society of Bengal, Vol. X, p. 102.

Bengal, Vol. X, p. 102.

Tabāqat-i-Nasiri, trans. Raverty, p. 584.

H. Blochmann, Contributions to the Geography and History of Bengal, Calcutta, 1968, pp. 8-10.

the colophon of a manuscript of Pañcharakshā. He was a Buddhist and is said to have been reigning in A.D. 1289. He is styled as Gaudesvara. Whether this is mere pompous vanity or whether he did reoccupy a portion of Gauda it is impossible to say. But it is not unlikely that Madhusena could occupy a portion of the Gauda country. For this was the time of political turmoil in Lakhnauti. From about A.D. 1244 the Ganga kings of Orissa (Jājnagar in the Tabāqat) carried out a tremendous onslaught on the Muslim kingdom in Rādha and in Lakhņauti. The fort at Lakhnaur (probably Nagar in Birbhum) was devastated and all the Muslim soldiers killed and Lakhnauti itself was besieged.¹ In A.D. 1258, Tajuddin Arslan Khan, the Governor of Kada, attacked Lakhnauti while the Governor of Lakhnauti, Izuddin Balban had led an expedition against East Bengal. Lakhnauti was occupied by Arslan Khan. In 1280-81, Tughral Khan, the Governor of Lakhnauti, rebelled against Ghiyasuddin Balban, the Emperor in Delhi, and Ghiyasuddin sent two expeditions to subjugate him. In such turmoil Madhusena might have occupied a portion of the Gauda country including a portion of Nadia.

In A.D. 1281, Ghiyāsuddin Balban himself led an expedition against the rebel Tughral Khan who fled to Jainagar. Ziauddin Barani states that in pursuit of the rebel, Ghiyasuddin went to Sunnārgāon and concluded a treaty with Danuj Rāi, the independent king, by which the latter agreed to prevent Tughral Khan's escape by the river routes. Barani further states that Ghiyāsuddin reached Jājnagar by a march of 70 Kros. Jājnagar of the Muslim writers meant Orissa which is amply proved by the copper plate grant of Nrisimha III of the Ganga dynasty which mentions of the attack on Rādha and Varendrī by his grandfather. The same raid is mentioned as a raid by the king of Jajnagar in the Tabaqat. If the Sunnargaon of Barani is the same as Sonārgāon near Dacca, it is inconceivable why Balban went to that place in pursuit of a fugitive to Jajnagar. Moreover, no place in Orissa could be written 70 Kros from Sonargaon. Blochmann² thinks that the single passage where Sunnargaon is mentioned might have been a mistake for Satgaon and the border of Mayurbhani will be within 70 Kros of Satgaon.

¹ Tabāqat-i-Nāsīrī p. 235. Also copper plate of Nrisimhadeva III, vide Journal of the Asiatic Society of Bengal, (old series), p. 232.
² Ibid., p. 32.

If Blochmann's emendation of Barani be accepted we shall have to presume the existence of an independent Hindu king in Sātgāon in A.D. 1280-82. For geographical reasons also Danuj-Rāi should be placed at Sātgāon. Balban had information at Lakhnauti that Tughral Khan had escaped to Jājnagar. He was chasing Tughral with a land army. Sātgāon stood on the river route from Lakhnauti to Orissa. So what Balban wanted to ensure by the treaty was, not prevention of escape of Tughral to Jājnagar but his flight back to Lakhnauti when he got scent of Balban's advance. How a king near Dacca could prevent escape to Orissa from Māldāh or prevent return of one already in Orissa cannot be imagined. Blochmann's surmise, therefore, appears to meet the circumstances.

In the Adabadi copper plate we find a king Mahārājādhirāja Arirāja Danuja Mādhava Daśarathadeva whose capital was at Vikramapura but who claims to have become Gaudeśvara by the grace of Nārāyaṇa. If this Danuja Mādhava, mentioned as Nauja in the Āin-i-Ākbari, is the same as Danuja-Rāi of Barani then this statement of having become Gaudeśvara may be taken to mean that he extended his sway to West Bengal up to Sātgāon. The Adabadi copper plate is also additional material to support Blochmann's emendation of Barani. If this view is accepted, it is likely that the southern portion of the district of Nadia was under Danuja Mādhava.

The conquest of Sātgāon by Zaffar Khan³ seems to have marked the end of the dynasty of Danuja Mādhava in that area. The interior of Nadia district, however, does not seem to have been intruded upon to any appreciable extent by the Muslim conquerors. If the provenance of Muslim inscriptions be any guide to the infiltration of that area, it would appear that in Nadia district Muslim inscriptions are scarce. Only two Muslim inscriptions have so far been found within the district of Nadia, one at Shāntipur and the other at Chākdaha and none of them is earlier than the 16th century. Small chieftains who had held their lands by grants from the Hindu kings continued to rule in that area. Of these chieftains the kings of Krishnanagar, otherwise known as Nadia Rāj, seem to be important and virtually

N. G. Majumdar, Inscriptions of Bengal, p. 181.

Between A.D. 1301 and 1322 during the reign of Samsuddin Firoz Shah of Lakhnauti (vide R. C. Majumdar, Bānglā Desher Itihāsa, Vol. II, Calcutta, 1373 B.S. p. 25).

the history of this family would by and large be the history of the district.

Nadia Rāj

The dynasty claims descent from Bhattanārāyaṇa, a Brahmin versed in Vedic lore who was brought by Ādiśūra, the king of Bengal in about 1000 śaka era, i.e. A.D. 1077-78. There are three accounts of the dynasty, two in Bengali and one of unknown authorship in Sanskrit. Only the Sanskrit text gives the complete genealogy from Bhattanārāyaṇa to Krishnachandra, the famous Mahārājā of Krishnanagar, who ascended the throne in A.D. 1728. The account compiled here is mainly from the Sanskrit text Kshitīśavamśāvalicharitam published by W. Pertsch from Berlin in 1852 collated from two manuscripts in the collection of Albrecht Weber in the Berlin collection.

Some details of the period of the reign of twelve generations starting from Bhattnārāyaṇa is given in the text. These are:

Name	Period of reign (years)
Bhattanārāyaņa	24
Nipu	28
Halāyudha	15
Harihara	20
Kandarpa	22
Viśvambhara	28
Narahari	सन्यमेव जयने 27
Nārāyaṇa	24
Priyankara	29
Dharmāngada	20
Tārāpati	47
Kāma	32
	316

The total period of reign of these twelve generations as given in the text is 316 years. The four sons of Kāma quarrelled about partitions of the kingdom and they went to Delhi to meet the emperor for arbitration. The name of the emperor given in the text is Mahmud Gazni. This apparently refers to Mahmud Tughlak who was on the throne of Delhi in A.D. 1393-94.

According to Kshitīśavaniśāvalicharitan, the kingdom of the dynasty of Bhaṭṭanārāyaṇa had been independent till the time the sons of Kāma went to Mahmud Tughlak for adjudication. Mahmud Tughlak offered to support that son who agreed to pay him tribute and Viśvanāth having agreed to do so was declared king by Mahmud Tughlak. From Viśvanāth to Kāśinath seven generations reigned for a total period of 198 years as follows:

Name	Period of reign (years)
Viśvanāth	31
Rāmachandra	23
Subuddhi	25
Trilochan	30
Kamsāri	26
Shashthīdāsa	29
K āśīnāth	34
	198

A singular misfortune fell to Kāśinath who is stated to have been a contemporary of Akbar. It is stated that a few elephants were being sent from Tripura to Akbar. One of them went astray and started ravaging the villages in Kāśinath's dominion. Kasinath thereupon hunted and killed the elephant. This account having been reported to the emperor, the emperor ordered Kasinath and his family to be brought to him in chains. Kasinath fled from his kingdom but was overtaken and killed at village Andulia near Bagwan. The wife of Kasinath was then with child and she took shelter in the house of a small chieftain named Harikrishna Samuddhar.1 In due course, a posthumous son was born to Kasinath who was named Rāma. Harikrishna Samuddhar adopted him as his child and bequeathed him a small territory near Ballavpur. Four sons were born to Rāma who assumed the title of Samuddhar. Of them Durgādās became famous later as Bhabānanda Majumdār. When Durgādās was

The Bengali text written by Rājīblochan Mukherjee and published from Serampore in 1805 has given this name as Biśvanāth Samadwar while the Annadāmangala of Bharat Chandra Roy mentions his title as Samaddar.

about 11 years old he attracted the notice of some admiral of the emperor at Delhi and was taken to Sātgāon where he was educated in Persian and given the post of Kanungo. Later, having pleased the Foujdar at Sātgāon, Bhabananda acquired some territory and built a palace at Ballavpur. In 1611, the emperor's army was sent to subdue Pratāpāditya, the then king of Jessore. Durgādās who was now known as Bhabānanda Majumdār, helped the Mughal army and as a reward was given 14 parganās including the parganā of Bagwan. Bhabananda then shifted his residence to Deulia near Matiāri.

There was some backlog of revenue and Bhabananda was summoned to Dacca by the Governor and imprisoned there. His grandson Gopiraman, who had accompanied him, secured his release after having pleased the Governor by his feats of physical strength. Bhabananda ruled his territories for 20 years and was succeeded by his third son Gopal. Gopal ruled for 7 years and was succeeded by his youngest son Raghab. Raghab shifted his residence from Matiari to the present town of Krishnanagar, then a small village known as Reui, inhabited by the goālā caste. Rāghab built a palace at this place. Rāghab excavated a large tank and for its consecration invited Brahmins from all over India. He was in good terms with the emperor at Delhi and received an elephant as a reward which no vassal king had been able to receive from the emperor. Raghab reigned over 51 years from A.D. 1632 to 1683 and his reign coincides with the reigns of Shah Jehan and Aurangzeb.

Rāghab died in about A.D. 1683 and was succeeded by his eldest son Rudra Roy. Rudra Roy appears to have been a successful monarch and so pleased the emperor at Delhi that he was awarded the title of Mahārājā. The village Reui to which Rāghab had shifted his capital was named Krishnanagar by Rudra Roy in memory of Lord Krishna, the God whom the goālās (milkmen caste) residing at the place adored. Rudra Roy was very punctual in paying the revenue to Delhi and for a time did not pay homage to the Governor at Dacca. Governor was annoyed and wrote to the Foujdar at Hugli to secure his arrest and send him to Dacca. Rudra Roy was taken to Hugli by the Foujdar under some ruse and there put under arrest and sent to Dacca. Rudra Roy seems to have successfully bribed the Governor at Dacca and secured not only his release but the Governor became almost subservient to him. An interesting incident quoted in the Sanskrit text is cited here to illustrate at the same time the political sagacity of Rudra Roy and the corruption of the Dacca officials. A Muslim shoe-maker insulted Rudra Roy at Dacca whereupon Rudra Roy caused him to be given a good beating by his servants. The Muslim shoe-maker community complained to the Governor against this affront but Rudra Roy paid the Governor a bribe of one lakh silver coins which bought the Governor off. The Governor dismissed the applicants saying that the insolence of the shoe-maker deserved the beating and that he thought no further action was necessary. From Dacca Rudra Roy brought one architect by the name Allahbux whom he engaged in building a new palace for him at Krishnanagar. During his reign a road was constructed from Krishnanagar to Shantipur and a huge temple of Siva which Rāghab had left unfinished was completed by Rudra Roy at Navadwīp and a śivalinga by the name of Rāghabeśvara was installed there. A small stream flowing by the palace was embanked at both ends and made into a lake. Rudra Roy had three sons - Ramchandra and Ramjiban by his first wife and Ramkrishna by his second wife. Ramchandra was an athlete and spent his time more in athletic pursuits than in learning kingly duties and was disliked by his father who determined to make Rāmjiban the king. Accordingly, he wrote to the emperor at Delhi for permission to install as his successor not his eldest son Ramchandra but any other son whom he chose. That consent having been obtained from the emperor, Rudra Roy chose Ramjiban to be his successor. Ramchandra protested and said that he knew how to get his sustenance if his brother failed to provide it for him. Rudra Roy died in A.D. 1694 after a reign of 11 years.

The funeral rites of Rudra Roy were observed with great pomp by Ramjiban and in the assembly of neighbouring princes Rāmchandra claimed a share of the paternal property, namely, the village Matiāri and a few village nearby and a subsistence of Rs. 1000 per annum. As Ramjiban was unwilling to agree to the proposal, Rāmchandra appealed to the Foujdar at Hugli. The Foujdar at Hugli obtained the consent of the Governor at Dacca and issued a firman installing Rāmchandra to the kingship. Armed with the firman Rāmchandra returned to his paternal capital, took physical possession of the palace at Srinagar and for a few years continuous quarrel and skirmishes between the followers of Rāmchandra and Ramjiban marred the peace of the country. Ramjiban, however, managed to take Ram-

chandra prisoner and also managed somehow to keep him imprisoned at Dacca.1 No more is heard of Ramchandra. Ramjiban, however, did not fare well with the Governor at Dacca for any length of time. Soon he defaulted revenue and an officer by the name of Radhaballav was sent by the Governor to look into the accounts of Ramjiban. A violent quarrel ensued between Radhaballav and Ramjiban and as a sequel Ramjiban was imprisoned at Dacca. Ramkrishna the youngest son of Rudra Roy was thereafter installed king by the Governor. Ramkrishna appears to have been a successful monarch. About this time Sova Singh, the chieftain of Chitua, rebelled, attacked Barddhaman, killed Krishna Ram, the king of Barddhaman and ravaged the kingdom. Jagatram, the son of Krishna Ram, was sheltered by Ramkrishna who kept him concealed at Matiari. Sova Singh was killed by the daughter of Krishna Ram to save her honour and thereafter Himmat Singh, brother of Sova Singh, and Rahim Khan, the Commander-in-Chief of Sova Singh's army, attacked the Nadia kingdom on their way to Murshidabad. Ramkrishna successfully resisted Himmat Singh and Rahim Khan. Aurangzeb was then passing through the Deccan and sent his grandson Azim with an army to quell the rebellion. During the campaign of prince Azim, Ramkrishna rendered him vital assistance and at a darbar called by prince Azim after the rebellions were put down, Ramkrishna appeared with a stately retinue which impressed the prince very much. From that time a friendship grew between prince Azim and Rāmkrishņa. Ramkrishna was also on good terms with the English settlement at Calcutta and a garrison of 2,500 soldiers of the English factory remained stationed at Krishnanagar. A border dispute ensued between Ramkrishna and the king of Jessore whereupon Ramkrishna marched on the king of Jessore and subdued him. The Governor at Dacca became jealous of Ramkrishna and called him to Dacca and there imprisoned him. Ramkrishna died of small-pox in imprisonment after a reign of 11 years. When news of the death of Ramkrishna reached Prince Azim he directed that the next kin of Ramkrishna who would be able to look after the family of Ramkrishna be given the kingdom. Jaffar Khan, the Governor, then suggested that Ramiiban, then imprisoned at Dacca, may be given the kingdom to which Prince Azim agreed and Ramjīban

¹ The text is silent about the manner in which Rāmchandra was kept the prisoner at Dacca. Perhaps Rāmjiban used his gold in the same manner as his father did to gain his purpose with the Governor at Dacca.

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Spread of Muslim dominance

gained the kingdom a second time. Ramjiban was succeeded by his son Raghurām in 1715 and in 1728 Krishņachandra, later on known as Mahārājā Krishņachandra of Nadia, was born.

The history of the spread of Muslim dominance over the tract of land now comprising Nadia district cannot be clearly outlined in the absence of proper historic material. The history of Bengal during the early Muslim Sultanate has been mainly compiled from inscriptions, coins and some written material. The last besides mentioning the raid on Nadia by Ikhtiaruddin Muhammad bin Bakhtiyar hardly give any further details. The history of the spread of Muslim dominance over this district has, therefore, to be surmised from a consideration of political geography along with the historic material of adjacent places.

The raid on Nadia by Ikhtiaruddin Muhammad bin Bakhtiyar in about A.D. 1200/1202 was more in the nature of a plundering raid than one leading to a permanent acquisition of territory. This raid, however, had the effect of extinguishing the hold of Lakshmanasena over the Radha area; and while the Sena power withdrew into eastern Bengal and the riparian areas of South Bengal, the Muslim conquerors fell back on Lakhnauti near Gauda in Māldāh district. The Ganga Kings of Orissa, who had been trying to occupy South-West Bengal since the time of Kumārapāla, apparently had succeeded in occupying the whole of Medinipur district and large portions of the present districts of Hugli, Barddhaman, Bankura and Birbhum by about A.D. 1271. From about A.D. 1200/1202 till the end of the thirteenth century, the Muslim power at Lakhnauti was busy fighting the Orissan power. Riverine southern and eastern Bengal escaped from molestation during this period and it may be safe to assume that this part of the country remained under Lakshmanasena and his successors till the reign of Danuja-Madhava Dasarathadeva (vide supra). Some coins of Ikhtiaruddin Yuzbak Tughral Khan (c. A.D. 1251-1257), who declared his independence of Delhi under the title of Mughisuddin Yuzbak Shah, bear the legend that these were minted out of the revenues of Nadia and Arzbadan. This may be taken as an indication of the reconquest of some area around Navadwip.

According to Ziauddin Barani, Ghiyasuddin Balban contracted a treaty with Danuja-Madhava Dasarathadeva of Sunnārgāon. Even if we do not accept the emendation suggested by Blochmann (vide supra) the statement that the borders of the kingdom of Orissa lay within 140 miles of the territory of Danuja Rāi would

lead to the inference that most part of the district of Nadia was still under Danuja-Madhava Daśarathadeva till A.D. 1280-81. During the affair of Mughisuddin Tughral Khan's rebellion (vide supra) it must have dawned on the Muslim conquerors that occupation of Tribeni-Saptagram area was strategically necessary to maintain hold over the Orissan territory and over South-West Bengal. Tribeni and Saptagram (Satgaon) were conquered either during the later part of the reign of Ruknuddin Kaikaus (A.D. 1291-1301) or during the early part of the reign of his successor Samsuddin Feroz Shah. The conquest of Sātgāon must have made inroad into the territory occupied by the dynasty of Daśarathadeva.

Ghiyasuddin Balban suppressed the rebellion of Mughisuddin Tughral Khan with great severity. He then installed his youngest son Nasiruddin Mahmud alias Bughra Khan as Governor of Lakhnauti about A.D. 1282. Nasiruddin Mahmud was succeeded by his son Ruknuddin Kaikaus in about A.D. 1291. Ruknuddin Kaikaus was succeeded by Samsuddin Feroz Shah whose origin is unknown. Most likely, he was the same as Ikhtiaruddin Feroz Atigin who was the Deputy Governor of Bihar during the governorship of Ruknuddin Kaikaus.1 There was dispute about the succession after the death of Samsuddin Feroz Shah. Sahabuddin Bughra Shah, his eldest son, succeeded him for a short time. A younger son of Samsuddin Feroz Shah named Ghiyasuddin Bahadur ousted Bughra Shah. Bughra Shah and another son Nasiruddin Ibrahim appealed to Ghiyasuddin Tughlak, the According to Ibn Batuta², Ghiyasuddin emperor at Delhi. Tughlak attacked Lakhnauti and installed Nasiruddin Ibrahim Shah. Ghiyasuddin Bahadur was carried away to Delhi as a prisoner. The kingdom of Bengal was split into three parts. Nasiruddin Ibrahim was made Governor of Lakhnauti; Tatar Khan, later given the honorific Bahram Khan by Muhammed Tughlak, was Governor of Sonargaon, while another whose name is not known was made Governor of Satgaon. Juna Khan, the son of Ghiyasuddin Tughlak who ascended the throne of Delhi as Muhammad Tughlak, released Ghiyasuddin Bahadur and permitted him to return to his governorship of Sonargaon under

R.D. Banerji in his Bāngālār Itihāsa, Vol. II, p. 88 states that Samsuddin Feroz Shah was the younger brother of Ruknuddin Kaikaus. R.C. Majumdar in his Bāngālā Dešer Itihāsa, Vol. II, p. 25- gives the view stated above.

² H. Blochmann, Contributions to the Geography and History of Bengal (Asiatic Society reprint, 1968), p. 116.

certain conditions. But he soon rebelled and Tatar Khan with the help of troops from Delhi took him prisoner and killed him. His skin was stuffed and shown in the streets of Delhi. Thus ended ignobly the last person in whose veins flowed the blood of Qutbuddin Ibak. Tatar Khan alias Bahram Khan then continued as Governor of Sonargaon and on his death his shield-bearer Fakruddin rebelled successfully and became independent king of Sonargaon. According to Ibn Batuta, Fakruddin had brought under his sway Sātgāon also. This occupation of Satgaon by the ruler of Sonārgāon who had also occupied Lakhnauti for a time indicates that by this time the occupation of the Nadia region must have been complete. According to numismatic evidence, Fakruddin under the title of Mubarak Shah ruled from A.D. 1338 to 1349.

Coins of Fakruddin Mubarak Shah minted at Sonargaon are available dated till 750 A.H., that is, A.D. 1349. Coins dated 751 to 753 A.H. minted from Sonargaon bear the name of one Ikhtiaruddin Gazi Shah. He styles himself as Sultan, son of Sultan (al Sultan bin Sultan). On this evidence he is generally taken to be the son of Fakruddin Mubarak Shah, though there is no positive proof of this fact.

In about A.D. 1342, an adventurer Samsuddin Iliyas Shah occupied Lakhnauti after killing Alauddin Ali Shah, the Governor of Lakhnauti, and declared independence of Delhi.³ In A.D. 1352-53, Samsuddin Iliyas Shah occupied Sonargaon after killing Ikhtiaruddin Gazi Shah. Samsuddin Iliyas Shah had also occupied Satgaon but the date of this event cannot be determined. Satgaon was till at least A.D. 1346 under Fakruddin Mubarak Shah as testified by Ibn Batuta. Probably, Ikhtiaruddin Gazi Shah could not keep his hold on Satgaon and it passed under Samsuddin Iliyas Shah after the death of Fakruddin Mubarak Shah in about A.D. 1347.

Thus, by about A.D. 1352, Samsuddin Iliyas Shah was undisputed sovereign of the whole of Bengal. From this time and until the occupation of Bengal by the Mughals in the reign of Jehangir, Nadia district remained a part of the kingdom of

Ibn Batuta mentions this city as Sodkawan. Some authorities took this to mean Chittagong, but R.D. Banerji in Bāngālār Itihāsa, Vol. II, p. 106 and Sukhamay Mukherji in Bāngālār Itihāser Duso Bachhar, App. E have shown that Sodkawang could be no other than Sātgāon.

Elliot's History of India, Vol. III, p. 243.

³ 'Beniāpukur Inscription' in Bibliography of the Muslim Sultans of Bengal by A.H. Dani,

Sammsuddin Iliyas Shah reigned till A.D. 1358 Lakhnauti. and was succeeded by his son Sikandar Shah who reigned till A.D. 1390.

According to the Kshitisavamsāvalicharitam, the original seat of the Nadia Raj was in pargana Haveli which is in the Chakdaha P.S. (vide Chapter I). Kasīnāth left his family in Ānuliā which is in Ranaghat P.S. and the territory of Patkābāri inherited by Rām Samuddhar was in Karimpur P.S. on the left bank of the Jalangi. The area around Navadwip upto the right bank of the Jalangi was most likely under direct governance of the Muslim rulers whose head-quarters was in Ambuā (present Kalna). appears to have been the political situation about the time immediately prior to the occupation of the whole of Bengal by Fakruddin Mubarak Shah. Nadia district appears to have been under the sway of Iliyas Shahi dynasty.

A scion of the dynasty of Ilivas Shah ascended the throne under the name of Nasiruddin Mahmud Shah. Nadia district appears to have remained within his territory for an inscription of this king has been found at Satgaon.1 The next king was Ruknuddin Barbak Shah, son of Nasiruddin Mahmud Shah who jointly reigned with his father from A.D. 1455 and independently from A.D. 1460 to 1473. From A.D. 1474 to 1476, he jointly reigned with his son Samsuddin Yusuf Shah. Literary activity in Bengal, which was stunned by the Muslim conquest, appears to have received fresh impetus during the reign of Ganesh.² The works of some of the writers of the period has survived. The most famous of these writers are Krittivasa whose Bengali Rāmāyana became very popular in Bengal. Krittivāsa was a resident of Phulia in Shantipur thana in Nadia district.3

Concrete epigraphic proof of the occupation of South Bengal is available in the reign of Ruknuddin Barbak Shah. One inscription of this king has been found at Basirhat in 24-Parganas district dated 871 A.H. or A.D. 1466.4 Ruknuddin Barbak Shah was succeeded by his son Samsuddin Yusuf Shah in A.D. 1477. The next king was Jalaluddin Fateh Shah, the uncle of Ruknuddin

¹ No. 28 of the list in Inscriptions of Bengal, Vol. IX, (1960), ed. Samsuddin

The Hindu king of Bengal who ruled between A.D. 1415 and 1418.
There is a good deal of controversy about the date of Krittivasa. The view given here is according to Bānglā Deser Itihāsa, ed. R. C. Majumdar, Vol. II. pp. 382-85.

⁴ No. 47 of the list in Inscriptions of Bengal, Vol. IV, (1960), ed. Samsuddin Ahmed,

Barbak Shah. The great Śrī Chaitanya was born at Navadwip on 18th February A.D. 1486 during the reign of this king. Statements made in the *Chaitanyamangala* of Jayānanda and in the *Manasāmangala* of Bijayagupta to show that there was some oppression and forcible conversion of the Hindus in and around Navadwip during the reign of this king. There was a rumour in Navadwip that a Brahmin would be the king of Navadwip. This rumour and the recent history of the rise of Ganesh must have impelled the Sultan to continue the oppressions.

Jalaluddin Fateh Shah was killed by his African slave who ascended the throne with the title of Sultan Shahzada. He reigned for a few months and was in turn killed by Malik Indil, another African nobleman who ascended the throne under the title of Saifuddin Feroz Shah. The latter reigned till about A.D. 1490. Two inscriptions of this king has been found at old Kalna which seem to indicate that the district of Nadia was under his suzerainty. The next king was Nasiruddin Mahmud Shah II. His parentage is unknown. He reigned for about two years and was killed by one Sidi Badr who ascended the throne under the title of Samsuddin Muzaffar Shah and reigned for about two years when he was killed by his minister Sayid Hussain who ascended the throne under the title of Alauddin Hossain Shah. The active life of Srī Chaitanya at Navadwīp was lived during the reign of this king. Though this king had on occassions oppressed the Hindus and during his campaign in Orissa had demolished many Hindu temples, yet on the whole he appears to have been somewhat tolerant to the Hindus. Once Srī Chaitanya was staying at Rāmkelī. Hossain Shah issued an order directing that none of the officers should molest him. Alauddin Hossain Shah spent much time in fruitless wars which told upon the resources of the State. He died in about A.D. 1519 and was succeeded by son Nasiruddin Nasrat Shah. During the reign of this king, Babar entered India. In A.D. 1526, Babar defeated Ibrahim Lodi at Panipat and occupied northern India as far east as the left bank of the Gogra bounding the territory of Nasrat Shah. Babar sent an envoy to Nasrat Shah for alliance. Nasrat Shah prevaricated for about a year and then concluded a pact with Babar who thereupon did not invade Bengal. Nasrat Shah was killed by a slave whom he had punished.

Nasrat Shah's son Alauddin Feroz Shah II ascended the throne in A.D. 1532 but about a year later was assassinated by his uncle Abdul Badr who ascended the throne with the title Ghiyas-

uddin Mahmud Shah. He was a foolish prince and Sher Khan, who later ascended the throne of Delhi defeating Humayun, played cat and mouse with him and fleeced him of a good deal of money. Ultimately, Ghiyasuddin Mahmud Shah fell in battle with Sher Khan. Ghiyasuddin Mahmud Shah allowed the Portuguese to lay the foundations of two settlements in Bengal, one at Chittagong and the other at Sātgāon. With this foothold the Portuguese pirates in later years laid the whole of South Bengal waste by their cupidity and rapacity.

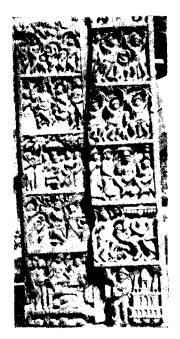
The family to which Srī Chaitanya belonged migrated to Navadwip from Sylhet. Srī Chaitanya was born at Navadwip on 23rd Falgun 1407 Saka corresponding to 18th February A.D. 1486 according to the Julian calendar then in force. The corrected date according to the Gregorian calendar would be 27th February A.D. 1486. He was named Bisvambhar and nicknamed Nimāi. The baby was very fair and showed auspicious marks at birth. Because of his fair complexion he was called Gour or Gorā. Bisvambhar gradually grew up to be a turbulent child.

At the age of sixteen, Bisvambhar took his degree in grammar and started his own seminary in the house of Mukunda Sanjay. Sachī, the mother of Bisvambhar was on the look out for a suitable bride for him. Soon a bride was found and in A.D. 1505 Bisvambhar was married to Vishnupriyā, a daughter of Rāja-Pandit Sanātan.

In October A.D. 1508 Biśvambhar started for Gaya, thirteen years after the death of his father, for the purpose of performing his śrāddha at Gaya. By a strange coincidence Iśvar Purī was also at Gaya at the time Biśvambhar reached Gaya. After the śrāddha ceremony, Biśvambhar asked for mantra from Iśvar Purī who initiated him in the ten-syllable Gopāla mantra. He resolved to go to Mathurā to find his beloved Krishņa but returned on hearing a celestial voice asking him to go back. On his way back, at the village Kānāi-Nāṭśāl (in Māldāh district), he had the vision that the boy Kṛishṇa of Vṛindāban came and embraced him and disappeared. To the end of his days Biśvambhar yearned for this meeting and wept saying that he found Kṛishṇa but lost him. Biśvambhar returned to Navadwip in January A.D. 1509.

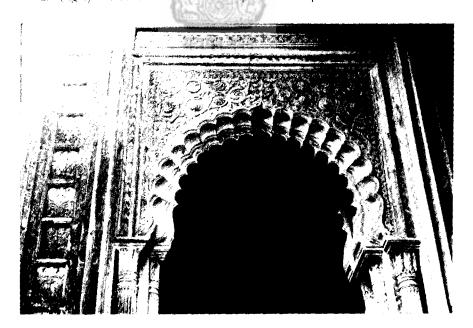
There were Vaishnavas in Navadwip even before Śrī Chaitanya propagated his doctrine of love. This group was led by Advaita-Achārya, Srīvāsa Āchārya and others. It has been said that

šrī Chaitanya





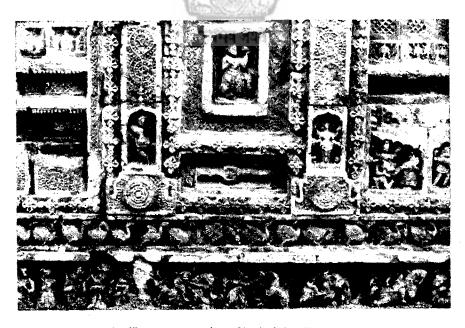
- 1. (left) Woodcarving on the doors of an old temple of Dharmadah, now kept in Krishnanagar Sähitya Parishad.
- 2. (right) Stucco work on a šiva temple at Nākāsipārā.



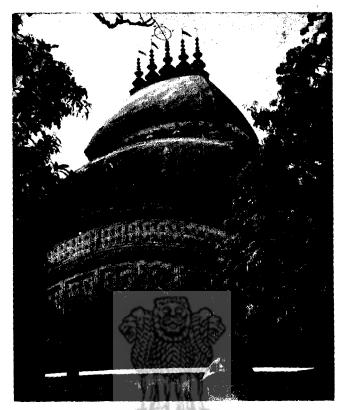
3. Natmañcha of Krishnanagar Rājbādi.



1. Pālpārā temple.



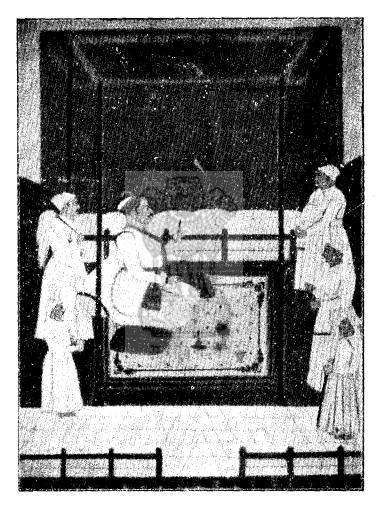
2. Terracotta panel at Jôr Bāṅglā, Birnagar,



1. syamchand temple, Shantipur.



2. An old pat kept at śrīvās Angan, Navadwip.



Portrait of Mahāvājā Krishnachandra and Gopāl Bhānr at Krishnanagar Rājbaḍi,

Jalaluddin Fateh Shah had ordered torture of the Brahmanas of Navadwip. The poet Javadeva had predicted the Kalki incarnation of Vishnu to rid the earth of the Mlechchhas. Advaita-Acharya was impatiently awaiting that incarnation to come. On the metamorphosis of the proud pandit into a meek Vaishuava, Advaita-Āchārya thought his dream was realized. He for the first time accepted Biśvambhar as Krishna incarnate. Biśvambhar who was in the habit of taunting the Vaishnavas, now sought their company and started joining in the kirtan in the house of śrīvāsa. The Kāzi (magistrate) of the Muslim ruler was approached by people of other sects who are called heretics (Pāshanda) to stop the kīrtan and the Kāzi ordered that kīrtan should stop. Bisvambhar was not cowed down by threats and resolved to disobey the order and start a public $k\bar{\imath}rtan$. With a large following singing and dancing in frenzied ecstasy, Bisvambhar went to the house of the Kāzi in Simuliā. The Kāzi was thoroughly cowed down and withdrew his order. But the memory of the vision at Kānāi-Nāţśāl was gradually working in the mind of Bisvambhar and changing him into a love-lorn Rādhā and gradually detaching him from all worldly ties. He failed to teach in his seminary and talked of Krishna all the while. One day his students revolted and he abolished the seminary. Thereafter, he decided to become an ascetic. His well-wishers, friends, his mother and wife all tried to dissuade him but to no avail. On 3rd February A.D. 1533 he was ordained as a monk by Keśava Bharatī at Katoya. His name after ordination became Śrī-krishnachaitanya. After ordination he roamed about in Rādha area for four days and reached at Shantipur the house of Advaita-Acharya. His mother and others (biographers are silent about his wife) came to see him there. After staving at Shantipur for three or four days he left for Puri.

Seeing the spire of the temple of Jagannath from a distance he shouted in glee and rushed to the temple. Entering the temple he tried to embrace the deity and was very likely hit by the $P\bar{a}nd\bar{a}s$ and fell down in a swoon. Vāsudeva Sārvabhauma, a Vedantist pandit of Navadwip who had earlier migrated to Puri for fear of Muslim oppression, happened to be there at the time and he carried Srī Chaitanya to his own house. At the house of Vāsudeva Sārvabhauma, Srī Chaitanya had a theological discourse with him and converted the Vedantist philosopher to his own faith of devotion to God. In Baisākh 1432

Saka (A.D. 1510), Śrī Chaitanya started on a tour of South India. On the bank of the Godavari, Śrī Chaitanya met Rāi Rāmānanda and had a discourse with him. The latter expounded the principle of devotion according to Sakhi-bhava. Completing a tour of most part of southern India, Śrī Chaitanya returned to Puri before rains in 1434 Saka and met Prataparudra, the King of Orissa who became his devotee. In 1435 Saka, he started for Gauda in autumn and met Rup Gosvami at Ramkeli. He had intended to go to Vrindaban but changed his mind and returned and on his way back came to the house of Advaita-Āchārya at Shantipur. His mother went and met him there. (Again there is no mention of his wife Vishnupriya.) He returned to Puri in April A.D. 1514. In October A.D. 1514, he started for Vrindaban along an unfrequented route through the fastnesses of Jharkhand (probably to avoid the Muslim territory). At Allahabad (Prayaga) he instructed Rüp Gosvami to write a treatise on his faith and mission. Having visited Vrindaban he came to Vārānasī and staved there till about March A.D. 1515. Sanātan Gosvāmī, the brother of Rup Gosvāmī, met him there after his escape from the prison of the Sultan of Bengal. In about April-May A.D. 1515, Sri Chaitanya returned to Puri and did not move from Puri till his mysterious disappearence on 29th June A.D. 1533.1

The district of Nadia remained practically unaffected during great upheavals in northern India which began with the defeat of Humayun at Chowsa in A.D. 1539. Sher Shah became Emperor of Delhi after final defeat of Humayun at Kanauj. During the weak reign of Muhammad Shah Adil, a nephew of Sher Shah, who had killed the grandson of Sher Shah and ascended the throne, Muhammad Khan, the Governor of Bengal, declared independence. He was killed in A.D. 1555 and Muhammad Shah Adil appointed Shahabaz Khan as Governor of Bengal. In the meantime, Humayun had returned and after defeating Sikandar Shah, the son of Sher Shah, had occupied Delhi. In A.D. 1556, at Panipat the power of Muhammad Shah Adil was crushed in battle by Akbar. Ghiyasuddin Bahadur Shah, son of Muhammad Khan, had in the meantime declared

¹ This date is generally taken as the date of his death. But how he died remains a mystery, for the body was not found. Jayānanda in his Chaitanyāmangal recorded that he died of tetanus caused by a wound in the foot. But the common saying recorded in the Sūnya Samhitā of Achyutānanda is that he disappeared in the idol Jagannāth. The mystery remains,

independence and after the battle of Panipat, while Muhammad Shah Adil was retreating towards Bengal, Ghiyasuddin Bahadur Shah killed him at Fatehpur. About this time an Afghan family. the Karranis had occupied portions of West Bengal, probably, part of Nadia district also. In 1563, Ghiyasuddin II, the brother of Ghiyasuddin Bahadur Shah died, and his son, whose name is not known, was killed and the assassin ascended the throne with the title of Ghiyasuddin III. Tai Khan Karrani killed him and became Sultan of Bengal. Tai Khan died within a year and was succeeded by his brother Sulaiman Karrani. Nadia district appears to have been under the sway of Sulaiman Karrani. Sulaiman Karrani was succeeded in A.D. 1572 by Bayazid Karrani, his son, who accepted the suzerainty of Akbar. Bayazid was killed by Honsu and the latter was killed by Daud Karrani, another son of Sulaiman Karrani, who ascended the throne of Bengal in A.D. 1573. Nadia continued to remain under his suzerainty. Daud Khan was defeated by the Mughal General Munim Khan at Tukaroi on 3rd March A.D. 1575 and finally lost Bengal, though he was allowed to retain Orissa. But he broke the peace and in the battle at Rajmahal on 10th July A.D. 1576 he was defeated, taken prisoner and executed by Khan-i-Jahan, the Mughal General.

Though after the defeat of Daud Karrani at Tukaroi, Akbar became formally emperor of Bengal, yet subjugation of Bengal was not completed during his lifetime. Nadia district figured in this campaign of subjugation in A.D. 1612 during the reign of Jehangir when under the governorship of Man Singh an expedition was led against Pratapaditya. Ghiyas Khan, Commander of the land force, started from Alapsing, crossed the Padma near Alaipur and marching along the Jalangi reached Bagwan. Mirza Nathan with the Mughal fleet also came at Bagwan. The fleet moved by the Bhairab and the Ichhamati and the land army followed along the banks. Tradition recorded in the Kshitīšavamšāvalīcharitam (vide supra) says that Bhavānanda Majumdar rendered active help to the Mughal army in this campaign which obtained for him the reward of 14 parganas. It is generally believed that Pratapaditya had occupied the southern part of Nadia district. With the defeat of Pratapaditya in this campaign the Mughal rule was firmly established in Nadia district and Bhavananda Majumdar and his dynasty continued to rule as Zamindars with the title of Rājā from this time onwards till the establishment of the British suzerainty.

Between A.D. 1710 and 1712, Sītārām Rāy, Rājā of Mahmudābād, rose in revolt and marauded parts of Nadia district. He was apprehended and executed in A.D. 1712. In A.D. 1728, Mahārājā Krishuachandra Ray came to the gadi. During the early part of his administration, Nadia district was constantly raided by Marhatta bands of Bargirs locally known as Bargis. For safety, Krishnachandra shifted his residence to Sibnivas on the Churni in Krishnagani thana.

During the reign of the weak successors of Aurangzeb, Jafar Khan, the Governor of Bengal, became practically independent of Delhi and styled himself as Nawab Murshid Kuli Khan. From his time to the advent of the British Rule the Bengal Nawabs were independent of Delhi. The history of Nadia district from this time enters into the modern period with the entry of the British in Bengal.

Modern period

In A.D. 1680, when Aurangzeb cancelled the right of free trade of the English East India Company granted by Prince Shuja and levied instead a 2 per cent duty and $1\frac{1}{2}$ per cent jezia, Sir Josiah Child, the then Governor of the said Company, conceived the idea of conquering Bengal and accordingly, a strong fleet was fitted out with the consent of the King of England in charge of Admiral Nicholson to begin an attack on Bengal from Chittagong. In October A.D. 1686, the projected offensive began and by May A.D. 1687, the Mughal Imperial forces had crushed it. Aurangzeb regarded this as a petty affair and never dreamed that after his death his empire will fall to pieces and within fifty years of his death the Nawab of Bengal would be defeated by the English in a mockery of a battle in the mango grove at Palāshi.

The Bengal events of A.D. 1756-65 tell a fascinating story of how blunders turned out to be the foundation stones of the British empire. If the Company's executives in Bengal did not contravene the Directors' instructions about fortification of Fort William, and if Drake, the then Governor of the English settlement, did not commit a grave error, as it was regarded by the leading men of the Company, in arrogantly provoking the Bengal Nawab, Sirajuddowla, there would have been no invasion of Calcutta, and no Palāshi. If the English merchants in Bengal had obeyed in letter and spirit the Court of Directors' orders forbidding them from dealing in inland trade and from indulging in fraudulent use of the custom-free concessions both of which practices violated the terms of the Mughal firman granted to

the Company, there would have been no quarrels with the Nawabs, no war with Mir Kasim, and no occasion for the events which ultimately led to the granting of the *Diwani* of Bengal to the Company by the Mughal emperor, Shah Alam. If there were no bribing, no forgery, no cheating, no avarice, on the part of the Company's servants—again to the consternation of the Directors—there would have been no revolution making every Nawab ever more subservient to the English, and laying brick by brick, the foundation of the British Empire.

The game of interfering in the politics of Indian courts started by Dupleix was successfully imitated by the English in Bengal. The English servants of the Company in Calcutta believed that Sirajuddowla would never be able to sit on the throne of grandfather Alivardi Khan. Ghasiti Bengum was the favourite of the English. By a master stroke of audacious tact, Sirajuddowla neutralized Ghasiti Begum, seized all her treasures and transferred her from her palace at Moti Jhil to his own palace. In May A.D. 1756, Siraj marched against his other rival Saukat Jang who offered his submission. Siraj now turned his attention to the English. Shortly before his departure for Purnea (to fight against Saukat Jang), Siraj was informed that the English and the French were raising fortifications. He called the agents of both and directed them to pull down the fortifications immediately. The French complied but the English did not. The English gave a very offensive reply. Sirajuddowla decided upon a show of force to bring the English to their senses. The factory at Kāshimbāzār was surrounded by troops and Watts and Collet summoned to his presence to give an undertaking that they would use their office to induce the English in Calcutta to agree to the demands made by him. The Käshimbazar factory was seized on the 4th June 1756 and on the 5th June Siraiuddowla set out for Calcutta with his army. On 7th June, an attempt at conciliation was made by Siva Babu, agent of Khwaja Wajid, a merchant. But Drake and his Council made no answer to the demand made by the Nawab. Another attempt at conciliation on the 17th through the same Siva Babu failed and Drake reacted by starting a token offensive on Sukhsagar. The English had therefore started the war before the Nawab. But when the attack on Fort William actually began on the 19th June, Drake was the first man to fly away on board a ship making no arrange-

¹ Ram Gopal, How the British Occupied Bengal. p. 23.

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ment for others' rescue if the fort fell. The fort surrendered on the 20th June A.D. 1756. After the surrender of Fort William, some of the English were taken prisoners but many were allowed to go to Fulta where Drake and others had taken refuge.

The English knew that Sirajuddowla was capable of military feats as his previous campaign against Fort William revealed. They, therefore, decided to remove him and place a stooge on the throne. On the 1st May A.D. 1757, the Fort William Select Committee approved a plan to raise a 'revolution' in Bengal to replace Sirajuddowla.

On 13th June 1757, Clive started with his force consisting of 650 European soldiers, 100 topasses, 150 of the train (including fifty sailors), eight pieces of 6 pounder cannon and 2,100 Indian sepoys. On 18th June A.D. 1757, the English force arrived at Kātoyā and on the 22nd June at 3 p.m. Clive received a communication from Mir Jafar, his secret ally, informing him that the Nawab is on the march and that Mir Jafar would join the English after they come near the Nawab's forces. On 22nd June A.D. 1757, Clive crossed the Bhagirathi and reached Palashi grove at midnight. At day-break, Sirajuddowla began his attack with heavy cannonade. Clive's forces were sheltered in the mango-grove and Clive had misgivings about the fidelity of Mir Jafar as his previous communication requesting the latter to come to Daudpur had remained unanswered. This cannonade continued till 2 p.m. and then the Nawab's army began to retire. At this time, Clive was not on the battle field and Major Killpatrick gave the order for his army to advance. The retiring of the Nawab's army was due to treachery as the note received by Clive at 5 p.m. on the same day from Mir Jafar suggests. The Nawab's army was headed by the following Generals, Mir Jafar. Ray Durlabh Ram, Khudadad Khan Latty (Yar Latif Khan), Manick Chand, Mir Kasim, Mohan Lal, Mir Madan and Bahadur Ali Khan. Of these, the first five betrayed the Nawab, did not fight and deserted. Mir Madan and Bahadur Ali Khan were killed. At this juncture Siraj called Mir Jafar and implored him to save the honour of the Nawab of Bengal. Mir Jafar

A name used in the 17th and 18th centuries for dark-skinned or half-caste claimants of Portuguese descent; soldiers of this class—a corruption of Persian top-chi, 'a gunner'. (H. Yule and A. C. Burnell, Hobson-Jobson, Delhi reprint, 1968. p. 933).

advised Sirajuddowla to call off the battle for the day for regrouping of forces for a battle next day. Siraj in the height of his folly recalled Mohan Lal who alone was fighting the English. Mohan Lal reluctantly turned back. Clive then pushed on, armed by the information he received from Mir Jafar. The most inglorious battle was then won easily by the English. Sirajuddowla fled but was captured at Bhagwāngolā and was later put to death by the son of Mir Jafar through one Muhammad Beg.

Mir Jafar, who became the Nawab, had made promises of payments to the extent of Rs. 227 lakhs, a huge sum which most likely he knew he would be unable to pay. Mir Jafar wrote to Clive that he was unable to make full payments to the Company and wanted more time. But Clive pressed on and ultimately the Nawab assigned the revenues of Barddhaman, Nadia and Hugli to the Company. In the zamindari of those districts, the English Company now became the revenue collector instead of the Nawab and appropriated all collections towards the payment of the treaty obligations. Luke Scrafton was placed in charge of the collections of revenues of the three districts and he made the collections with extreme severity. The deteriorating conditions of these districts made the Nawab anxious and in the beginning of the summer of 1760, he demanded the restoration of those districts to him. About this time Miran, Mir Jafar's son, died, and the question of succession immediately came to the forefront. The English Company at Fort William began thinking of another revolution. Holwell, the acting Governor, suggested taking over the administration but this was not ultimately approved. On 27th September 1760, a secret treaty was concluded with Mir Kasim, and Mir Jafar was pressed by Vansittart and Gailloud to accept Mir Kasim as Deputy Subahdar. After a fruitless discussion for five days, Mir Jafar finally refused to accept Mir Kasim as Deputy Subahdar, and Gailloud was ordered to occupy the Nawab's palace. Mir Jafar then decided to abdicate, and Mir Kasim was declared Nawab and the revolution of 1760 was effected without any bloodshed.

It is rather peculiar that neither the English nor Mir Kasim took any step to clear up their mutual relations in the agreement of 1760. While Mir Kasim claimed to be an independent ruler, the English authorities in Bengal had been acting in a manner which was incompatible with that position.

The abuse of the dustucks' which had been resented by all Nawabs since the time of Sirajuddowla again came to a head and Mir Kasim by his royal decree completely abolished the This brought the English at par with the Indian sair² duties. merchants and the dishonest earnings of the Company's servants by selling the dustucks was put a stop to. This infuriated the English and Ellis, the chief of the Patna factory, threatened to seize the city. The attempt, however, failed, but the events led to the out-break of war between the English and Mir Kasim in 1763. Although Mir Kasim had assembled a 15,000 strong army, vet the English gained successive victories over him at Katova, Murshidābād, Giria, Suti, Udainālā and Monghyr, Mir Kasim fled to Patna and thence to Oudh where he formed a confederacy with Nawab Sujauddowla and Emperor Shah Alam II. At the Battle of Buxar, Major Munroe defeated the combined forces on 22nd October 1764. Shah Alam II surrendered to the English. Immediately after the outbreak of war with Mir Kasim, the English made another treaty with Mir Jafar and declared him Nawab. Mir Jafar, however, died early in 1765 and his son Nizamuddowla was allowed to succeed his father on the stipulation that he would abide by the treaty of 28th February 1765 made with Mir Jafar which required that the management of the administration should be left in the hands of a minister to be styled Deputy Subahdar who would be a person nominated by the English and not removable without their consent. The supreme control of the administration thus passed into the hands of the English and the Nawab merely remained a figurehead. In May, 1765, Clive became Governor of Fort William. With Shah Alam II under the tutelage of the English, Clive's genius invented the plan of using the authority of the Emperor to further the cause of the English in Bengal. Oudh was restored to Sujauddowla in lieu of Rs. 50 lakhs, and Allahabad and the surrounding tracts detached from Oudh was given to Emperor Shah Alam II for maintenance. In return for these cessions the Emperor granted a firman on 12th August 1765 by which the East India Company became the Diwan of Bengal, Bihar and Orissa.

¹ A permit or pass granted by the Company's covananted servants in the early half of the 18th century (H. Yule and A. C. Burnell, ibid.

p. 334).
A variety of imposts other than land-tax (H. H. Wilson, Glossary of Judicial and Revenue terms, Delhi reprint, 1968. p. 454).

The East India Company after getting the Sanad for Diwani did not attempt the collection of revenues by their own officials. Instead, they appointed Muhammad Reza Khan, the Deputy Subahdar, as Naib-Diwan on a remuneration of Rs. 9 lakhs a year. Out of the revenues to be collected by the Naib-Diwan, 2½ per cent were to go as commission to the Members of the Council at Fort William, Rs. 26 lakhs were to be paid to Emperor Shah Alam II and Rs. 32 lakhs to the Nawab of Bengal.

The dual government of Clive, as this arrangement is called, led to the destitution of the people, and Reza Khan has been accused of too much oppression in the collection of revenues. There was a general failure of crop in 1769, and famine conditions became apparent in 1770. But no attempt was made to alleviate the distress of the people. The collection of revenues during the year 1770-71 showed an increase over the previous year. Reza Khan was accused of buying up the available rice at the rate of 20 to 30 seers per rupee in the Murshidabad-Nadia region which he later sold at 3 to 4 seers a rupee. About a third of the population of Bengal died in this famine.

The unsatisfactory state under which revenue was being collected under the dual administration was being apparent almost since the beginning of the experiment. The serious famine of 1770-71 put an end to this experiment and by a proclamation of 11th May 1772 the post of Naib-Diwan was abolished and the Company decided to stand forth as Diwan themselves.

Warren Hastings was appointed Governor in 1772 with full powers to reform the administration. A Collector and an Indian Diwan were appointed in each district to supervise the revenue administration. Lands were farmed out by public auction and assessment was made for a period of five years. The result of this experiment was again disastrous.

The famine of 1770-71 and the general uncertain condition of the country led to a large increase in the number of robberies and dacoities. Mr. Blaquire, the Magistrate of Nadia, dealt with the dacoits quite effectively employing spies to watch their movements.

The freedom struggle of 1857-58 did not affect Nadia district because there was no garrison stationed there.

W. K. Firminger, Historical Introduction to the Bengal Portion of the Fifth Report (Reprint, 1960). p. 204.

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The blue vegetable dye, indigo, as it was called by the Greeks, appears to have been an ancient article of export from the Indian port of Barbaricum. But *Periplus* does not mention this as an item of commerce from the port of Gange. This makes its cultivation in deltaic Bengal doubtful in the first century A.D.

Indigo cultivation and the disturbance of 1860

In modern times the earliest cultivation of indigo along modern lines was started in Bengal by the Frenchman Louis Bonnaud at Tāldāngā and Gondalpārā in 1777. The first Englishman to start indigo plantation was Carol Bloome who established his concern in 1778. In 1779, the East India Company permitted all Europeans to establish indigo plantations. The cultivation of such a profitable cash crop as indigo should have brought prosperity to the cultivators in Bengal but in fact this led to the first uprising of the ryots in British occupied Bengal. The cause lay not in the crop or its cultivation but in the manner in which the European planters forced the local ryots to cultivate indigo. The planters advanced money to the ryots for cultivation of indigo and in theory the advance was to be written off against the crop supplied. But the rapacious planters manipulated accounts in such manner that the ryot was ever left a debtor to the planter and year after year the debt increased and he practically became a serf of the planter. This practice made the ryots refuse to accept the advances and the planters used all possible means of coercion to force the ryot to take the advances. Their cattle were seized, the ryot was confined and physically tortured, their houses were set fire too and their paddy crop destroyed. In those days the arm of law was not long enough to reach the rapacious planters. The hands of the planters were further strengthened by Regulation VI of 1823 which gave a lien interest of the planter on the land of the ryot who had taken advance and by Regulation V of 1830 the ryots were liable to be imprisoned if they failed to grow indigo after taking the advance. On 10th April 1832, the Court of Directors of the East India Company in London wrote to the Governor-General expressing their deep concern at reports reaching them of the rapacity of the planters. The report of Mr. Turnbull, the Magistrate of Nadia, may be quoted, "The contract formed with the ryot is sometimes not in writing, is frequently insufficiently defined and is generally extremely unfavourable to the ryot rendering him in fact a slave to the establishment with which he was once engaged ... I had some opportunity of witnessing the scenes of contentious strife. ... The disorders 68 NADÍA

which then prevailed in the neighbouring indigo districts have, I believe, nothing abated to the present day and they are certainly such as to call for the serious interposition of government. ... The most daring breaches of peace are committed in the face of our police officers, and even the magistrate himself. In utter defiance of all law and authority, large bodies of armed men are avowedly entertained for the express purpose for taking or retaining forcible possession of land or crops. Violent affrays or regular pitched battles ensue attended with blood-shed or homicide. ... Private assassination occasionally occurs and forgery and perjury have their full sway, in short every species of crime are committed." According to law then prevalent the European British subjects were not under the jurisdiction of the mofussil courts. The magistrates were also cowed down by fear or prosecution before the Supreme Court. In 1849, John Drinkwater Bethune, Law Secretary to the Government of India, prepared a draft of a law by which the jurisdiction of the mofussil court was to be extended to the European British subjects. But in the teeth of strong opposition by the European community the draft never became law. Mr. Sconce, Judge-Magistrate of Nadia sent a report on 20th April 1854 to the Government about the oppressions by the planters and requested that a Commission be constituted to inquire into the matter. The Government, however, turned down the proposal.2

By 1859, the ferment which had been brewing for about 30 years suddenly exploded. Resistance groups grew up in a larger number of villages in Jessore and Nadia. Some of the planters and their men were attacked, some villages so organized themselves that the lā!hiāls of the planters dared not enter there. Near Krishnanagar the movement was organized by two redoubtable men, Bishnucharan Biswas and Digambar Biswas of Chaugāchhā. Chaugāchhā and the adjacent villages declared that they would not cultivate indigo. The planters of the Katgara concern attacked those villages with 1,000 lathials. Many were injured and killed and many were arrested and prosecuted. So widespread and deep was public resentment against indigo cultivation that the Governor-General Lord Canning wrote, "I assure you that for about a week it caused me more anxiety than I have had since the days of Delhi and from that day I felt that

¹ Indigo Commission Report, Appendix 16. 2 Selections from the Records of the Government of Bengal: Papers relating to the Indigo cultivation in Bengal, Calcutta, 1860, pp. 2-3, 5-6.

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a shot fired in anger or fear by a foolish planter might put every factory in Lower Bengal in flames." In 1860, the Government constituted the Indigo Commission. A notification also issued warning all parties concerned against having recourse to violent or unlawful proceedings. In 1880, Adolf von Bayer synthesized indigo (Indigotin) and indigo cultivation and its attendant troubles died a natural death.

Nationalist sentiment continued to be high after the Indigo Revolt. The Krishnanagar students' trial of 1884 displayed the mood of revolt against foreign rule.

Tarapada Bandyopadhyay, a son of the district, helped in the spread of political consciousness during the last two decades of the nineteenth and first decade of the twentieth century. He suggested the raising of a National Fund at the time of Surendranath Banerjea's imprisonment in 1883. The fund (Rs. 20,000) so collected was spent in the anti-partition agitation of Bengal. Tarapada was a leader of the boycott movement in Krishnanagar. He convened a public meeting at the Krishnanagar Town Hall in 1905 which was addressed by Surendranath Banerjea and others. At this meeting a large number of people took the vow of swadeshi under the leadership of Tarapada.3 The religious sentiments of the people were exploited in the swadeshi or economic boycott movement. The pandits of Navadwip lent their support to the movement of boycotting foreign salt and sugar. In Nadia district the family priests carried the boycott from dusk to dawn. A man of Nadia district using foreign sugar was boycotted by his castemen.3

Institutes for physical culture grew up. The younger generation was inspired by the ideal of freedom propounded by Bankimchandra, the noted novelist. People drew inspiration from the nationalist poems and songs of Rajani Sen and Rabindranath. At that time a very prominent person participating in the freedom movement was Jatindranath Mukherjee or Bāghā Jatin. He had his early education at his maternal uncle's place and passed the Entrance examination from Krishnanagar A. V. School. He founded an institute for physical culture behind Krishnanagar Public Library building possibly to train up his associates for the Unrest in 1905

Bāghā Jatin

^{1.}H.E. Garrett, Nadia District Gazetteer, 1910.

² R.C. Majumdar, History of the Freedom Movement in India, Vol. 1, Calcutta, 1962, p. 377; N. Sinha, Freedom Movement in Bengal: 1818-1904: Who's who, Calcutta, 1968, p. 333.

8 R.C. Majumdar, Struggle for Freedom, Bharatiya Vidya Bhavan,

Bombay, 1969, pp. 35, 39.

imminent fight. The terrorist movement was afoot and Jatindranath had connexions with his associates in Calcutta. Some political dacoities also took place to provide funds for the revolutionaries. For instance, a dacoity took place at Raita¹ on 29th
November 1908 involving a loot of Rs. 1,915 and at Haludbari²
in Daulatpur police station area (now in Bānglādesh) on 28th
October 1909 involving a loot of Rs. 1,400. A sum of Rs. 2,700
was also looted for political purposes at Pragpur in Daulatpur
police station area on 30th April 1915.³ A river dacoity also
took place at Sibpur in Kotwali police station area on 30th
September 1915 involving a loot of Rs. 20,700. Nine terrorists
headed by Naren Ghosh Chaudhuri were arrested in this connexion. Police arrested Lalit Chatterji, the maternal uncle of
Jatindranath, and two others, but for want of evidence they
were released.

Jatindranath's encounter with the police on the bank of Budi Balam river in Orissa on 9th September 1915 along with his associate Jatish of Khoksa of this district and others is an important landmark in the struggle for freedom. The idea of social service was growing and institutions like Daridra Bhandar (Poor Fund), Krishnanagar, Shāntipur Public Library, Bandhu Sabha, Sahitya Sabha, etc. came to be established.

Anantahari Mitra was an active member of the terrorists' organization. In 1924, he shifted his secret office to Dakshineswar, though connexions were maintained with the organizers at Krishnanagar. Anantahari used to stay at the house named District Association, situated to the north of the District Judge's court. Workers of the secret organization used to stay there and it was purchased in December 1922. At present the house is called Anantahari Smriti Sadan. At that time mail service by horse-drawn coaches used to function between Krishnanagar Post Office and Navadwīp. On 16th July 1924 the mail bags were

Sedition Committee (S.A.T. Rowlatt): 1918: Report, Calcutta, 1973

Ibid., pp. 72-73.

Terrorists in 1924

⁽reprint), p. 39.

2 Ibid., p. 41: "Another important dacoity committed this autumn ... was at Haludbari in the Nadia District. On October 28th, ten or twelve youths armed with pistols and a gun, with faces muffled and some with false beards, raided two houses and carried off in ornaments and money Rs. 1,400. Five of them were intercepted on their way to a railway station and arrested. In the house of one of them 35 loaded revolver cartridges were found. Five of these men were convicted. In the possession of one of them, Upendra Deb, were pills containing fatal doses of cyanide of potassium. One of the others in his statement said that such pills had been given ... in order that they might commit suicide if necessary."

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looted though they had not much cash. The police could not trace the persons involved though it was supposed to be the work of the party of Anantahari.

Enthusiasm in the wake of the Chittagong armoury raid of 18th April 1930 shook this part of the province. The young terrorists reorganized the secret organizations and on the night of 17th March 1931 bombs were thrown simultaneously in the bungalow of the Superintendent of Police at Krishnanagar, on Kotwali thana building and on the house of an Inspector of the District Intelligence Branch. One of the most important ingredients of bombs was picric acid and some local terrorists arranged to bring it from other provinces as it was in short supply with the pharmaceutical firms in the district. Pamphlets written by women voicing protest against torture inflicted on the political prisoners at Andaman and other jails were pasted in the walls of Krishnanagar town on the night of the bombing. The pamphlets said that the revolutionaries like Bharat Singh should not be hanged, and that the organizers were having recourse to bombing as constitutional methods were failing to bring about any redress. The case named Krishnanagar Bomb Case, however, could not be proved against the accused persons. Some of them were later made political prisoners and kept in detention.

The non-Cooperation movement initiated in the Nagpur Congress was launched here and fiery speeches were delivered by Bepin Chandra Pal in the Public Library maidan and in the town hall on the occasion. Later, Deshbandhu Chittaranjan Das visited Krishnanagar and other places to raise fund for the Tilak Swarajya Fund. The secret training Centre for the nationalists was started at Garabini Cottage, Krishnanagar in 1921. It was considered a haunted house, and hence the nationalists could occupy it at a monthly rent of Rs. 28 only. The late Prof. Hemanta Kumar Sarkar sided with Chittaranjan and took up the management of the District Congress party. Branches of the Congress organization were set up at different places and organizers were sent there to run them. The Congress then organized campaigns against liquor shops and foreign goods and arranged for the boycott of educational institutions.

In 1926, the annual session of the Bengal Provincial Conference was held in Krishnanagar. Nazrul Islam, the Bengali poet, was then residing there and he formed a volunteer corps and made a great stir by his national songs.

Anantahari in 1930

Krishnanagar Bomb cases

Non-Cooperation **Moveme**nt 1920 The first all Bengal Youth and all Bengal Students' convention were held in Krishnanagar in 1926 under the Chairmanship of Sri Tulsi Goswami and Sm. Sarojini Naidu respectively. Parades and route marches were held by organizing Red-shirt volunteers in Krishnanagar, Kushtia and other places. In 1927, the Redshirt movement was followed by a library movement which spread throughout the district.

In the thirties, the late Tarakdas Banerjee was at the helm of the Nadia Congress. The Satyagrahis coming from Kushtia to Krishnanagar were looked after by Sri Banerjee. He organized many night schools, libraries, etc. in Krishnanagar town.

The day on which the judgement of the Krishnanagar Bomb case was delivered was remarkable because on that very day Subhas Chandra attended a big public meeting at Krishnanagar. Leaders like Rajendra Prasad, K. F. Nariman, M. S. Aney also delivered lectures in that meeting.

The no-tax movement first began at Chanderghat on 13th April 1932 wherefrom it spread over a large part of the district.

The Quit India movement of 1942 found expression through strikes and protests against prohibitive orders in the district. Many students took part in the movement and were arrested and given different terms of jail sentences after trial. There were picketing in front of wine shops in Krishnanagar and hoisting of Congress flags on top of public buildings. Violent activities like the burning of trains in the railway siding at Krishnanagar and of some Government hutments at Ranaghat were resorted to. The Muragacha railway station was attacked and burnt. Muktir $D\bar{a}k$, the journal of the district congress became the forum of underground activity of the party workers. In some places communications were cut off. Political leaders and organizations were subjected to repressions. Some leaders were taken into custody under the Defence of India Act.²

Nadia was partitioned in 1947 in pursuance of the Radcliffe award details of which have been given in Chapter I.

Quit India 1942

Independence

B. Ray, Census 1961: West Bengal: District Census Handbook:

Nadia, Calcutta, 1967, pp. 25-26.

Nadia Jela Nagarik Parishad, Swādhīnatā Samgrāme Nadiā (in Bengali), Krishnanagar, 1973, pp. 186-99.

CHAPTER III

PEOPLE

The district of Nadia, which nearly extended over an area of 2,800 sq. miles since 1870, was partitioned in 1947, and now contains an area of 3,926 sq. km.¹ (1,509 sq. miles) showing depletion of a sizable portion of its land. But there has not been a proportionate decrease in its population. The population rather increased from 8,40,303 in 1941 (in the undivided district) to 11,44,924 in 1951 and then to 17,13,324 in 1961 till in 1971 it became 22,30,270. The story was otherwise prior to and immediately following the first Census count of 1872.

Although a few estimates of the population of the district were made right from the beginning of the nineteenth century, the first authentic figures were available from the Census count of 1872. Paucity of water supply, ravages of the Burdwan Fever between 1860 and 1872, poor agricultural activities and progressive infertility of the soil due to dying rivers had resulted in depopulation through large-scale death and emigration in the late nineteenth century. Fever and Cholera broke out sporadically, hampering the growth of population in the last decade of the nineteenth century. In the next decade, Cholera broke out again and famine conditions prevailed for sometime. Influenza in an epidemic form took a great toll of lives in 1918-19. But in the 1921-31 decade, the supply of filtered water attracted many rural folk to settle in Krishnanagar. Many towns like Navadwip and Shantipur also attracted people from the rural areas with the opening and extension of bridges and railways. Fall in population figures due to floods, famines, epidemics, drought and distress continued in later decades till the district was partitioned in 1947, when more people migrated into the district than those who vacated it. While there had been a percentage increase of 36.25 in 1951 over the population of 1941 in the district palpably caused by immigration, there was an overwhelming percentage increase of 49.65 in 1961 over the population of 1951 caused by immigration from within and without the country, and natural growth. In 1971, the population registered a percentage increase of 30.14 over the population of 1961, which was above the increase in the figure for the State

POPULATION

Growth of population in the district

¹ As on Ist July 1971.

(26.87) during the same period (1961-71). The growth of population in the district and its police stations may be visualized from the table in Appendix A.

While the absolute figures of population in different decades have been given in the aforesaid table, the table in Appendix B will reveal the percentage variations in population from decade to decade.

Both the absolute and percentage figures reveal that in the 1881-91 decade there had been decrease in population in every police station except in Karimpur and Shāntipur police stations. The decrease continued in some police stations during the next two decades, which reached its climax in the 1911-21 decade when all the police stations recorded considerable decreases. The position improved to some extent in the next decade when eight police stations recorded increases and five decreases. In the 1931-41 decade, the position improved and increases were found in each police station. In the 1941-51 decade, only two police stations, namely, Tehatta and Karimpur recorded decreases caused by emigration. The increases elsewhere in this decade and everywhere in the next decade may have been caused by immigration, natural growth, ctc. as has been stated earlier.

The density of population in the district was around five hundred persons to a sq. mile for decades beginning with 1872. Navadwīp and Shāntipur police stations, including the towns of the same names, had sufficient density right from the early years of this century, and Krishnanagar, the headquarters town of the district, displayed high density figures only in 1951 and 1961.

In the early years of this century, density was conditioned by several factors, like paucity of drinking water supply, decay of distributary rivers and consequent ill health and death of people till the figures reached their minimum in 1921. The figures then continued to grow up till in 1951 and 1961 they were sufficiently high everywhere owing to immigration as a result of the partition. While in 1951, Krishnanagar recorded very high density figures in comparison with those for earlier years, in 1961 a number of police stations, incorporating refugee colonies and planned townships, recorded high density figures. They were Rānāghāt, Chākdaha and Haringhātā police stations, all belonging to Rānāghāt Subdivision, which since 1951 outnumbered the only other subdivision of the district in density figures. The growth of Navadwīp police station in Sadar Sub-

Density of population

division and Shantipur in Ranaghat Subdivision continued unabated, and the former had the highest density figures (3,113 per sq. mile) in 1961.

The district with 1,135 persons per sq. mile has a density higher than the overall average for West Bengal, which is 1,021 persons per sq. mile. As to the density of rural population, Nadia ranks fifth in the State of West Bengal. In urban areas it has only 7,183 persons per sq. mile as against the average of 12,978 persons per sq. mile of urban areas in the entire State (vide 1961 Census count).

The density figures of the district along with its police stations beginning from 1872 are set forth in the table in Appendix C. The table shows that some areas have greater concentrations than others and that there has been a rapid growth following the partition.

The density of population in the district was greater in the urban area than in the rural, and the figures below will indicate that while the density in the rural areas has nearly trebled between 1941 and 1971, it has nearly quadrupled in the urban areas during the same period.

DENSITY IN THE RURAL-URBAN SECTOR IN NADIA DISTRICT: 1901-71*

Urban	9,249	7,183	4,740	2,649	2,649	1,819	1,824	1,815
Rural	1,238	954	639	494	434	431	475	473
	1971	1961	1951	1941	1931	1921	1911	1901

The towns in the district are growing, sometimes absorbing villages; and they numbered 12 in 1961 spread over 44.0 sq. miles (113.7 sq. km.) with a population of 3,15,338 (1,63,166 males and 1,52,172 females), which formed 18.41 per cent of the total district population.

The growth of towns and refugee townships in the wake of the partition has been a feature of the district in recent years. The table in Appendix D would indicate the growth of population in the towns, conterminous with municipal areas since 1901 and newly laid out refugee colonies or planned townships in 1971.

Growth of towns

^{*}Density per sq. mile.

While industries attract people to towns elsewhere, in this district refugee immigrants have inflated the size of the population. In some cases, new townships have grown up with the refugees who came over from East Pakistan (now Bānglādesh). Townships like Tāherpur, Kātāganj and Gokulpur have absorbed villages to accommodate refugees in Government colonies there.

Pilgrim Centres and municipal areas like Navadwīp and Shāntipur have had always large populations, and have increased more in recent years. Krishnanagar, the headquarters station of the district and a municipal town, has also attracted people for long. People have also flocked in other municipal areas like Rānāghāt, a subdivisional town, Chākdaha and Bīrnagar in search of non-agricultural economic pursuits.

Some planned townships like Kalyāṇī, which has absorbed many villages and has many industries, described in Chapter V, and Haringhātā, with its civil offices and livestock centre have also a sizable population. Other townships like Phuliā and Bagulā have also grown in recent years, populated mostly by refugees from East Pakistan (now Bānglādesh). Thus immigration, rather than natural growth, has a large part to play in the composition of the population of the district.

Rural population According to the Census of 1961, there were 13,97,986 persons (7,16,264 males and 6,81,722 females) in the rural areas of the district, spread over 1,465.1 sq. miles (3,794.8 sq. km.). They inhabited 1,282 villages and formed 81.59 per cent of the total district population. The following table shows the rural population and other allied data as obtaining in the district according to the Census of 1961. The table also reveals that the largest number of villages (184) are in Rānāghāt police station, followed by Chākdaha (156) and Karimpur (132). The largest average incidence of population in village is to be found in Navadwīp (1,936) and Tehatta (1,538) police stations, followed by others. Within an area of 100 sq. miles each, Chākdaha police station has the largest number of inhabited villages (141), followed by Haringhātā (137) and Rānāghāt (111) police stations.

B. Ray, Census 1961: West Bengal, District Handbook: Nadia, Calcutta. 1967, p. 42.

RURAL POPULATION IN NADIA DISTRICT: 1961

						No. of
					Average	in-
					no. of	habited
					persons	villages
			No. of		per in-	per 100
Administrative	Rural	area	inhabited	Population	habited	sq. miles
Unit	sq. miles	sq. km.	villages	(rural)	village	(rural)
1	2	3	4	5 ,	6	7
West Bengal	33,553.0	-	38,465	2,65,85,437	686	115
-	•		(38,074)	(3,33,44,978)		
Nadia District	1,465.1	3,794.8	1,282	13,97,986	1,090	88
	•	•	(1,275)	(18,12,211)		
Sadar Subdivision	966.6	2,503.4	712	8,68,507	1,220	74
			(707)	(11,23,066)		
Krishnanagar P.S.	140.8	364.7	119	1,48,941	1,252	85
			(127)	(1,87,035)		
Navadwip P.S.	35.7	92,4	27	52,281	1,936	76
		~	2010	(66,366)		
Chāprā P.S.	130,8	338,8	91	1,10,754	1,217	70
		683E	(78)	(1,35,634)		
Krishnaganj P.S.	58,4	151.2	52	52,034	1,001	89
		13780		(68,756)		
Nākāsipārā P.S.	139,9	362.3	99	1,19,176	1,204	71
		T.D	(100)	(1,52,317)		
Kāliganj P.S.	124.0	321.2	105	1,12,325	1,070	85
		1.30	4 2007	(1,48,465)		***
Tehatta P.S.	163.4	23.2		1,33,803	1,538	53
			(88)	(1,77,013)		
Karimpur P.S.	173,6	449.6	132	1,39,193	1,054	76
Dentales Cub		-	(130)	(1,87,480)	•	
Rānāghāt Sub- division	498 5	1,291,4	570	5,29,479	929	114
division	770.5	T-Second state	(568)	(6,89,145)		1
Rānāghāt P.S.	165.2	427.9	184	1,96,557	1,068	111
Managnat 1.0.	100	1-112	(182)	(2,39,560)		
Chākdaha P.S.	110,6	286.5	156	1,28,632	825	141
Chandulla 1.5.	110,0	-0010	(131)	(1,39,699)		•
Haringhātā P.S.	65.0	168.4	89	67,324	756	137
			(86)	(95,583)		-
Hänskhäli P.S.	93.5	242.2	78	79,535	1,020	83
		· ·	(77)	(1,07,407)		
Shäntipur P.S.	64.2	166.4	63	57,431	912	98
			(64)	(78,518))	
			, ,	. ,		

The Census figures indicate that villages with smaller number of people are becoming further small. It may be that bigger villages with better economic facilities, are attracting people from smaller villages, eventually to be grasped by bigger cities

Figures in brackets are those for Census 1971. In cols. 4 and 5 where the figures are the same during Census 1971, such figures have not been repeated. The newly formed Kalyani P.S. had 28 inhabited villages in 1971 with a total rural population of 28,878.

in the future. The following table would indicate the depletion in villages having less than 500 people, and in villages where people number between 500 and 999 during the 1951-61 decade. The number of people is almost static in 1,000 — 1,999 population-group, while a large increase is to be found in 2,000-4,999; 5,000-9,999 and 10,000 + population-groups during the same decade.

VARIATION IN RURAL POPULATION IN NADIA DISTRICT: 1951-611

	Percentage of						
Villages (according to the size of population)	class to to	ages in this tal no. of the district	Population in this class to total rural population of the district				
	1951	1961	1951	1961			
Less than 500	53,47	34.32	18.64	8.27			
500-999	24,96	28,46	23.37	18.69			
1,000-1,999	16.16	23.14	29,62	29.50			
2,000-4,999	4.93	12,59	18.74	32.74			
5,000-9,999	0,24	1,33	2.17	7,59			
10,000+	0.24	0.16	7.46	3.21			

Emigration and Immigration

Immigrants form a sizable population of the district. The number of emigrants is also considerable. To avail of the opportunities for economic gain rural people have flocked to the recently grown towns of the district; besides, a good number of migrants have come over from East Pakistan (now Bänglādesh) following the partition and have settled in urbanized colonies and urban areas. There are also immigrants from other districts of West Bengal and from other States of India. According to the Census of 1961, 70,122 persons, born in other districts of West Bengal, migrated into the district, of whom 26,077 were males and 44,045 females. The increase in the number of females indicates that a large number of females were taken in as brides from other districts. The contiguous Murshidābād and 24-Parganas districts sent 18,300 and 16,640 migrants respectively forming 26.10 and 23.73 per cent of the total number

¹ Ibid., p. 43. In 1971, there were 1,275 inhabited villages in the district, and the total rural population there numbered 18,12,211. Villages having less than 200 people numbered 100, between 200 and 499 numbered 212, between 500 and 999 numbered 331, between 1,000 and 1,999 numbered 349, between 2,000 and 4,999 numbered 249, between 5,000 and 9,999 numbered 29 and having 10,000 and above numbered 5.

of immigrants. Barddhaman, Calcutta and Hugli districts sent respectively 9,664, 7,531 and 4,498 migrants who formed 13.78, 10.74 and 7.84 per cent of the total number of immigrants into the district.

There were also 27,251 immigrants from other States of India in the district, of whom persons from Bihār, Uttar Pradesh, Orissa and Assam respectively numbered 16,990, 3,419, 2,736 and 1,940, the rest having come from other States.

As to the immigrants from East Pakistan (now Bānglādesh), the Census of 1961 enumerated as many as 5,02,645 persons in the district.

The Census of 1961 recorded 1,17,269 emigrants from the district to other districts of the State, of whom 33,107, 23,572, 17,495, 15,553, 11,008 and 6,565 migrated to 24-Parganas, Calcutta, Barddhamān, Murshidābād, Hugli and Howrah districts respectively forming 28.23, 20.10, 14.92, 13.26, 9.39 and 5.60 per cent of the total number of immigrants to other districts. The districts attracting the emigrants are mainly industrialized and urbanized, and offered better employment opportunities to such persons than are available in Nadia district.

The Census of 1951 enumerated 4,24,656 persons (2,18,712 males and 2,05,944 females) belonging to the minority communities in East Pakistan (now Bānglādesh) as those who had come to the district between 1946 and 1951. In another report¹, it is seen that such persons numbering 4,03,804 ² migrated to the district during the same period, of whom 16.76 per cent (67,696) settled in the urban areas. The migrants mostly came from the ceded portion of Nadia district (42.0%), Faridpur (12.6%), Jessore (11.6%), Dacca (10.7%) and other districts of East Pakistan (now Bānglādesh) with lower percentage figures.

The following table gives detailed figures about the distribution of refugees outside Government camps in the district in 1955.

Displaced persons

Government of West Bengal, State Statistical Bureau, Report on the sample survey for estimating the socio-economic characteristics of displaced persons migrating from Eastern Pākistān to the State of West Bengal, Calcutta, 1951, p. 13.

The discrepancy in figures may have been due to the fact that the

The discrepancy in figures may have been due to the fact that the latter Census was undertaken carlier — when the migrants were still pouring in.

pouring in.

The District Magistrate, Nadia, had recorded 5,90,760 immigrants between 1947 and 1951 (vide A. Mitra, Gensus 1951; District Handbook; Nadia, Calcutta, 1953, p. XXXVII).

DISTRIBUTION OF DISPLACED PERSONS IN NADIA DISTRICT: 1955¹ (OUTSIDE GOVERNMENT CAMPS)

	No. of families	No. of members
Nadia district	1,05,841	4,66,608
Sadar Subdivision	50,238	2,16,861
Krishnanagar P.S.	10,794	47,838
Krishnanagar Town	4,454	22,364
Navadwip P.S.	9,165	38,927
Navadwīp Town	6,096	26,575
Chāprā P.S.	5,642	23,445
Krishnaganj P.S.	5,117	21,015
Nākāsipārā P.S.	3,386	15,485
Kāliaganj P.S.	1,668	7,781
Tehatta P.S.	5,646	23,115
Karimpur P.S.	8,820	39,255
Rānāghāt Subdivision	55,603	2,49,747
Ranaghat P.S.	20,426	93,123
Rānāghāt Town	2,154	11,015
Bīrnagar Town	928	4,246
Chākdaha P.S.	14,681	65,437
Chākdaha Town	4,052	18,735
Haringhātā P.S.	2,641	12,473
Hänskhäli P.S.	10,799	47,532
Shāntipur P.S.	7,056	31,182
Shāntipur Town	2,670	12,346

Age-composition The following table shows the age-composition of the people in both the rural and urban areas of the district. Leaving aside the children below 10, the others have been grouped in a five-year span each. It will be seen that the number of people in each group declines with the advance of age.

Government of West Bengal, State Statistical Bureau — Rehabilitation of Refugees: A statistical survey, 1955, Calcutta, 1956, pp. 90-91.

NO. OF PEOPLE IN DIFFERENT AGE-GROUPS IN NADIA DISTRICT: 1961

Age-group	Locality	Persons	Males	Females
All ages	Rural	13,97,986	7,16,264	6,81,722
	Urban	3,15,338	1,63,166	1,52,172
0-9	R	4,69,899	2,33,508	2,36,391
	บ	89,482	45,059	44,423
10-14	R	1,51,511	82,255	69,286
	U	36,956	19,194	17,762
15-19	R	1,13,502	59,438	54,064
	บ	29,256	15,340	13,916
20-24	R	1,11,664	54,719	56,945
	Ü	28,008	14,778	13,230
25-29	R	1,08,783	55,262	53,521
	U	24,268	12,718	11,550
30-34	R	88,862	46,149	42,713
	U	21,296	11,174	10,122
35-39	R	74,119	41,115	33,004
	U	16,807	9,657	7,150
40-44	R	67,957	36,069	31,888
	U	17,079	9,110	7,969
45-49	R	51,237	28,030	23,207
	Ū	11,835	6,343	5,492
50-54	R	50,452	25,684	24,768
	\mathbf{u}	13,046	6,810	6,236
55-59	R	30,949	16,474	14,475
	U	7,894	4,203	3,691
60-64	R	34,147	16,207	17,940
	U	8,515	3,784	4,731
65-69	R	15,821	7,959	7,862
	U	4,232	1,894	2,338
70+	R	28,114	12,862	15,252
	U	6,652	3,092	3,560
Age not stated	R	969	563	406
	U	12	10	2

Males outnumber females both in the State of West Bengal and in Nadia district. The following table would indicate the distribution of females per 1,000 males in the district between 1901 and 1961.

Male-female ratio

NO. OF FEMALES PER 1,000 MALES IN NADIA DISTRICT: 1901-61

	•	West Benga	1	Nadia district		
Year	Total	Rural	Urban	Total	Rural	Urban
1901	945	994	652	1,014	1,006	1,082
1911	925	982	614	² 996	988	1,067
1921	905	971	591	956	946	1,035
1931	890	961	578	951	947	981
1941	652	945	559	945	941	973
1951	965	939	660	937	940	927
1961	878	943	701	948	952	933

The foregoing table reveals that in 1901 females outnumbered males both in the rural and urban areas of the district. While increased number of females continued during 1911 and 1931 in the urban areas, their number declined in the rural areas in every decade beginning from 1911. Since 1931, however, their numbers have declined in the urban areas also.

The following table shows a detailed distribution of females per 1,000 males in the district during 1961.

NO. OF FEMALES PER 1,000 MALES IN NADIA DISTRICT: 1961

	Total	Rurai	Urban
Sadar Subdivision	956	959	936
Krishnanagar P.S.	967	993	915
Navadwip P.S.	948	935	957
Chāprā P.S.	955	955	_
Krishnaganj P.S.	939	939	 ,
Nākāsipārā P.S.	948	948	
Käliganj P.S.	950	950	-
Tehatta P.S.	957	957	
Karimpur P.S.	960	960	-
Rānāghāt Subdivision	938	940	929
Rānāghāt P.S.	945	957	906
Chākdaha P.S.	919	917	923
Haringhātā P.S.	929	929	
Hānskhāli P.S.	935	937	900
Shāntipur P.S.	960	957	964

From the foregoing table it appears that the largest number of females (967) per 1,000 males are to be found in Krishnanagar police station. Rural females per 1,000 males are the largest in number (993) in Krishnanagar police station, while urban females for the same number of males are most numerous (964) in Shāntipur police station.

LANGUAGES

According to the Census of 1961, 45 languages as spoken in the district, could be identified. Of them, Bengali, being the language of the State, is naturally the predominant language, followed by Hindi. The languages next in numerical importance are Sāntāli and Orāon spoken by the Sāntāls and the Orāons of the district. These tribes came to the district in not very distant past, their main work being reclamation of land and agricultural pursuits. The Oriyā speakers form the next numerous group, followed by Mundāri, again a tribal language. Urdu speakers come next in numerical importance. These languages, combined with several others, both Indian and foreign, form the linguistic background of the district.

According to the Census of 1961, Bengali speakers (including Mālpāhāriā speakers) numbered 16,73,511 (8,53,286 males and 8,20,162 females), of whom 13,70,418 were in rural and 3,03,093 in urban areas of the district. They form 97.67 per cent of the population of the district. In 1901, they numbered 16,53,956 forming 99.18 per cent of the district population, which figure declined to 15,12,326 in 1931 forming 98.86 per cent of the then district population and recording a percentage decrease of 8.56 over the thirty-year period beginning from 1901. During the next thirty-year period (1931-61), a percentage increase of 10.65 is perceptible over the figures obtaining in 1931.

Indo-Aryan Bengali

Bengali, as spoken in the district, is said to be the Central dialect of Bengali. It is spoken by the educated classes and is usually taken as the standard of polite conversation. It is the same language as spoken in the town of Calcutta and other adjoining districts like 24-Parganas, Murshidābād, Hugli and Howrah.1 This dialect is the eastern form of Rādha (West Bengali) proper,² and is distinguished from the former regions of East Nadia, which are now in Bangladesh, where the Radha and Vanga forms of Bengali intermingle, the former influencing the latter.

Though there has been migration of people from one region to another in recent years under various circumstances, obliterating regional characters of speech-forms, the following may be cited as an illustration of the language as it was spoken in the district in the early parts of this century.

পাঁচ সেখ ও মালি মণ্ডলের কথোপকথন³

পাঁচ—ভূ**ইকম্প**টা পেরথম পশ্চিম দিক হতে এলো। তার পর ঘর দোর সব কাঁপতে নাগলো। তার পর কেরমেসে জল নড়তে নাগলো। তার পর গরু বাছুর জীব জানোয়ার সব কাঁপতে নাগলো। তুই কি কচ্ছিলি*?* মালি—আমি আমার মহাজনের বাড়ী ধানের জন্য গিয়াছিলাম। খুঁটি হেলান দিয়া বসেছিলাম। এমন ধারা ভূইকম্প আমার গেয়ানেতে দেখিনি কখন। তুই সে সময় কোথায় ছিলি?

¹ G. A. Grierson, Linguistic Survey of India, Vol. V, Part I, Calcutta,

^{1903.} p. 37. S. K. Chatterji, The Origin and Development of the Bengali Language, Part I, Calcutta, 1926, p. 140 (table).

G. A. Grierson, op. cit., pp. 62-63.

TRANSLITERATION AND TRANSLATION

Pānchu Sēkh O Māli Maṇḍalēr kathōpakathan (Pānchu Sēkh and Māli Maṇḍal's dialogue).

Pānchu — Bhui-kampa-tā pērtham paśchim dik hatē Earthquake the-first west side from elo. Tār par ghar dör sab kānptē nāglō came. Of-that after house doors all to-shake begar kērmēsē ial nartē nāglō. Tār par Of-that after gradually water to-shake began. garu bāchhur jīb Of-that after cows calves living animals sab kānptē nāglō. Tui ki kachchhili? al to-shake began. You what were-doing?

Māli — Āmi āmār mahājanēr badi dhānēr my of-mahajan house of-paddy janya giyāchhilām. Sēkhānē khūnti There for went. post hēlān-diyā, basë (reclining-giving, i.e. reclining), having-sat-down chhilam. Eman dhara bhui-kampa amar earthquake my I-was. This like dēkhi-ni kakhana. gevānētē Tui in-knowledge saw not-ever. You sē samay kōthāy chhili? that time where were?

FREE TRANSLATION OF THE FOREGOING

CONVERSATION BETWEEN PÄNCHU SEKH AND MÄLI MANDAL.

Pānchu—The first shaking of the earth came from the west After that all the houses began to shake. After that the water began gradually to shake. Then all living animals, such as cows and calves began to shake. What were you doing?

Māli — I had gone to the house of my banker for paddy.

I had sat down and was leaning against a post.

To my knowledge, I never saw such an earthquake.

Where were you at the time?

Hindi is spoken by different classes of people, specially in the urban areas. In 1901, the Hindi speakers of the district numbered 12,319 forming 0.73 per cent of the district population, which figure declined to 11,485 in 1931 forming 0.75 per cent of the then district population. It recorded a percentage decrease of 6.77 over the thirty-year period beginning from 1901. In 1961, the Hindi speakers numbered 26,452 forming 1.54 per cent of the district population and recording a phenomenal percentage increase of 130.31 over the thirty-year period beginning from 1931.

Oriyā, Urdu, etc.

Hindi

Of the several other Indo-Aryan languages spoken in the district, the Oriyā speakers number 1,676 (1,389 males and 287 females) according to the Census of 1961. There are also 509 Urdu speakers, 474 Nepāli speakers, 158 Gurmukhi speakers, 94 Gujarati speakers and a few speakers of other languages whose number does not exceed fifty each.

Austric Säntäli

It was said that there was a large class of people in the district who were aborigines brought from Hazaribagh and Santal Parganas to work as labourers in the manufacture of indigo, and that they had settled and cultivated their own land. They also worked as labourers, fishermen, palanquin-carriers, etc. went under the general name Buna, which included Ghātwāls, Sāntāls, Rājbansis and Bāgdis. No more classed under a general group, it appears that the Santals of the district, hailing as they do from Santal Parganas, speak Northern Santali and not Southern Santali, the other form of the language. Belonging to the Munda branch of the Austric family of languages prevalent in the country, the language as spoken in the district has borrowed many words from the Bengali vocabulary, while its grammatical and phonological structure remains traditional. In 1901, the Santali speakers numbered only 81 in the district, and the figure rose to 541 in 1931. In 1961, they numbered 4,605 (including figures for Māhāli and Pāhāriā) forming 0.27 per cent to total population and recording great percentage increase over the earlier figures.

Mundāri

Muṇḍāri speakers of the district numbered 726 (339 males and 387 females) in 1961. Belonging to the Muṇḍā branch of the Austric family, the Muṇḍāri language is akin to Sāntāli in many respects, though not interchangeable.

¹ J. M. Pringle and A. H. Kemm, Final Report on the Survey and Settlement Operations in the District of Nadia, 1918-1926, Calcutta, 1928, p. 23.

Dravidian Tāmil, Telugu, etc.

Orāon

Foreign languages Of the Dravidian languages there are only 110 Telugu speakers, 38 Tamil speakers, 37 Malayalam speakers and 13 Kannada speakers in the district.

According to the Census of 1961, the Orãon speakers number 4,297 (2,173 males and 2,124 females) in the district. Like the Sāntāls, the Orāon speakers have also migrated into the district in not very distant past in search of livelihood. Belonging to the Dravidian stock, the language remains a spoken one in the district.

According to the Census of 1961, there are 44 Persian speakers, 38 English speakers (including 2 Americans), 9 Italian speakers, 5 Chinese speakers, 4 Afghani speakers and only 1 speaker each for the Burmese, Dutch, German, Japanese and Spanish languages.

The following table reveals the number of speakers of some selected languages in absolute figures spread throughout the district.

NO. OF SPEAKERS OF SELECTED LANGUAGES IN NADIA DISTRICT: 1961

Administrative Unit	Bengali	Hindi	Sāntāli	Orāon
Nadia district	16,73,448	26,446	4,605	4,297
Sadar Subdivision Krishnanagar P.S. Navadwip P.S.	9,96,563 2,11,025 1,21,573	10,965 5 ,545 2,995	1,236 667 33	1,479 1,479
Chāprā P.S. Krishnaganj P.S.	1,10,511 51,500	223 426	41	
Nākāsipārā P.S. Kāliganj P S	1,18,549 1,11,326	364 848	241 108	
Tehatta P.S. Karimpur P.S.	1,33,472 1,38,607	246 318	29 117	-
Rānāghāt Subdivision Rānāghāt P.S.	6,76,885 2,45,717	15,481 4,994	3,318 26	2,818 18
Chākdaha P.S. Haringhātā P.S. Hānskhāli P.S.	1,74,086 63,965 82,945	7,317 1,136 412	1,683 1,575 50	1,597 261 601
Shāntipur P.S.	56,126	1,622	35	341

Bilingualism

According to the Census of 1961, out of the total speakers numbering 17,13,304 in the district, subsidiary languages are spoken by 59,910 persons, forming 3.49 per cent of the total. Of the speakers of subsidiary languages, as many as 48,643 forming 81.19 per cent of them, speak English as a subsidiary language. English being the main subsidiary language, it seems

that only the elites of society in this district are numerically important as the speakers of a subsidiary language. Bengali, being the language of the State, quite naturally forms the next subsidiary language for speakers of other languages, and is spoken as such by 8,123 persons forming 13.55 per cent of the speakers of subsidiary languages. Hindi as a subsidiary language comes next, spoken by as many as 2,163 speakers, forming 3.64 per cent of the speakers of subsidiary languages.

Of the total Bengali speakers numbering 2,94,08,246 in the State, subsidiary languages are spoken by only 16,50,905 persons, who form 5.61 per cent of the said total. In this district, out of a total number of 16,73,448 Bengali speakers, only 51,162 Bengali speakers, forming 3.05 per cent of the former speak subsidiary languages. Bengali being the State language, it is natural that a large number of Bengali speakers need not speak a subsidiary language in the performance of their daily avocations. Of the Bengali speakers of subsidiary languages in the district, as many as 48,260 persons forming 94.32 per cent of the Bengali speakers of subsidiary languages speak English, a foreign tongue.

Of the Bengali speakers who speak subsidiary languages also only 3.85 per cent numbering 1,973 speaks Hindi, which figure is insignificant in comparison with those who speak English also.

According to the Census of 1961, out of 18,94,039 Hindi speakers in the State, only 3,37,529 persons, forming 17.82 per cent of the former speak subsidiary languages. Of the Hindi speakers of subsidiary languages in the district as many as 2,27,277 persons, forming 67.33 per cent of them, speak Bengali. Of them 88,970 persons, forming 26.35 per cent, speak English.

Of the total speakers of Sāntāli numbering 11,21,447 in the State, 4,60,658 persons, forming 41.08 per cent of the former speak subsidiary languages. Of the speakers of Sāntāli (Māhāli and Pāhāriā excepted) numbering 4,410 in the district, 1,327 persons, forming 30.09 per cent of the former, speak subsidiary languages. Almost 100 per cent of the Sāntāli speakers (numbering 1,320 persons) of subsidiary languages speak Bengali, the State language.

Of the total Orāon speakers numbering 2,15,636 in the State, 54,531 persons, forming 25.28 per cent of the former, speak subsidiary languages. In the district, out of 4,297 Orāon speakers, as many as 1,891 persons, forming 44.00 per cent speak subsidiary languages, and of them almost 100 per cent and numbering 1,873 persons speak Bengali.

Among Bengali mother-tongue group

Among Hindi mother-tongue group

Among tribal mother-tongue groups Sāntālī

Orāon

Muņḍāri

Of the total Muṇḍāri speakers numbering 31,486 in the State, 10,189 persons, forming 32.36 per cent of the former, speak subsidiary languages. In the district, however, out of 726 Muṇḍāri speakers, 359 persons forming 49.44 per cent of the former, speak subsidiary languages, of whom 358 persons, forming 100 per cent speak Bengali.

RELIGION

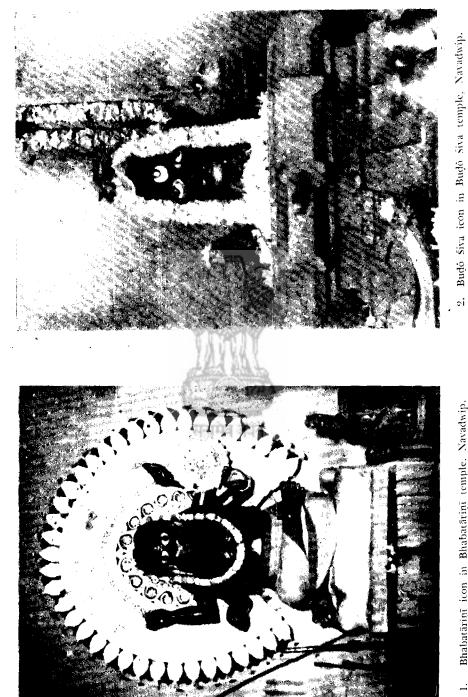
The Census of 1961 enumerated 6 religious groups in the district, namely, Hindus, Muslims, Christians, Sikhs, Jains and Buddhists, spread over the different administrative units as set forth in the table below.

NO. OF PERSONS OF DIFFERENT RELIGIOUS GROUPS IN NADIA DISTRICT: 1961*

District/ Subdivision/	Hindus	Muslims	Christians	Sikhs	Jains	Buddhists
Nadia District	12,84,173	4,17,706	10,840	400	126	38
	(74.95)	(24.38)	(0.63)			
Sadar	6,81,044	3,22,135	8,193	294	118	24
Subdivision	(67.31)	(31.84)	(0.89)			
Ranaghat	6,03,129	95,571	2,647	106	8	14
Subdivision	(85.98)	(13.62)	(0.37)			

The foregoing table indicates that almost three-fourths of the district population consist of Hindus, while Muslims consist of a little less than one-fourth. The Christians of the district form 0.63 per cent of the total district population and are most numerous in Chapra P.S. forming 3.75 per cent of the total population of that area. As to the other religious groups, namely, Sikhs, Jains and Buddhists, it will be seen from the table that they are mostly to be found in the subdivisional towns, including the Sadar subdivisional headquarters which is also the district The Census of 1961 enumerated 16 Brahmos (5 headquarters. males and 11 females) living in the urban areas of Chākdaha police station. It may be that the Brahmos, as such, have now been returning themselves as Hindus, the parent body of old. The census also enumerated 7 Santal males living in the rural areas of Chākdaha police station. As the Sāntāls as an ethnic group in the district consist of more persons, it may be that most of them also returned themselves as Hindus. The census further returned 18 persons as professing the faith of Mārānburu, which

^{*}The figures in brackets indicate the percentage in relation to the total population of the relevant administrative unit.



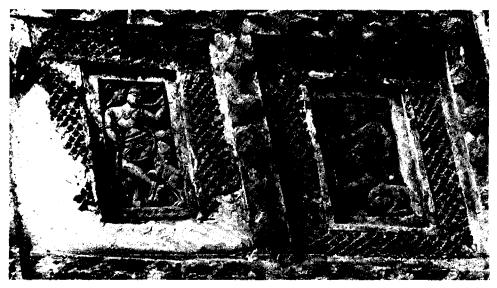
Bhabatārinī icon in Bhabatārinī temple. Navadwip.



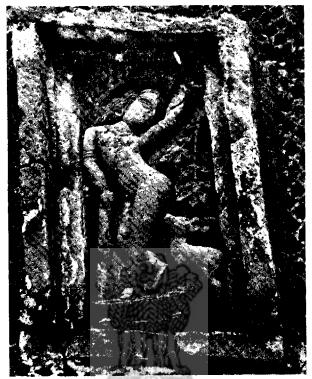
2. Śrichaitanya temple, Māyāpur.



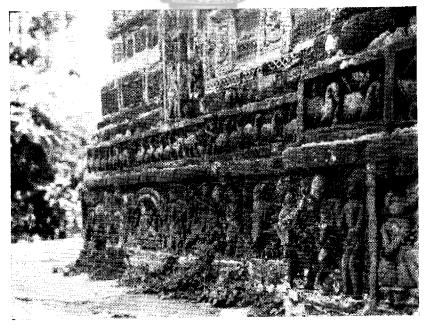
I. Dignagar šiva temple,



2. Terracotta plaques in Dignagar temple.



1. A terracotta plaque in Dignagar temple.



2. Terracotta panels in Dignagar Rāghaveśvara temple.

is a deity of the Santals. They live in the rural areas of Chakdaha.

Hinduism

Hinduism as professed by the Hindus is the Great eclectic religion which finds expression through diverse forms, namely, Vaishnavism, Sāktaism, Saivism and other folk-worship. Abounding in many age-old fairs and festivals and intersected by the Gangā, sacred to the Hindus, the district is renowned for having within its geographical limits Navadwīp, the birthplace of Srī Chaitanya, the Vaishnavite savant of the medieval days. A brief outline of the different forms of worship under Hinduism, along with their places of worship, is given below.

Vaishnavis

Vaishnavism in the district found expression through Gaudiya Vaishnavism, or to be more precise, through Chaitanyaism, the religion propagated by the disciples of Srī Chaitanya. His erudite disciples, that is, the *Gosvāmins* of Vṛindāvan also made large contributions to delineate his philosophy.

Chaitanya was born at a time (A.D. 1486) when the Bhakti cult had not much sway over the common people, barring a few stalwarts of the cult like Advaitāchārya, Śrīvāsa, Murārī Gupta, Haridasa, etc. Folk-gods on the one hand and Brahmanical pomp on the other flourished during that time. Conversion to Islam through force or royal patronage also continued. Srī Chaitanya, being initiated into the Bhakti cult, became a changed man singing the name of Hari or Krishna and suffering mental pains for separation from Him. He organized Samkirtana, or community singing, of the name of God and thus reached the heart of all and sundry, rich or poor. He disregarded all distinction of caste and creed so far as religious initiation was concerned. The itinerant Chaitanya continued to spread his doctrines of love and devotion to Krishna at various places of the country. The Rādhā-Krishna cult as seen in Bengal first found expression in Madhavendra Purī, though the background was set by the writings of Jayadeya, Vidyāpati, Chandīdāsa, Umāpati Dhar, etc. The preachings of love were then inherited by Isvara Puri from Mädhavendra Purī. Śrī Chaitanya in his turn got a taste of it from Isvara Puri. The practical side of the movement was organized by Advaita and Nityananda,1 while the theoretical side was developed by the writings of the Gosvāmins (Rūp, Sanātana and Jīva) of Vrindāvana and the great Vaishņava scholar

¹ Cf. R. C. Majumdar (ed.), The Delhi Sultanate, Bombay, 1960, p. 568: "The descendants of Nityānanda living at Navadvīpa, and those of Advaita residing at Sāntipur, are the spiritual heads of the sect."

Kṛishṇadāsa Kavirāja who wrote Śrī Chaitanya Charitāmṛita, a book dealing with the life and philosophy of Śrī Chaitanya. Other biographies of Śrī Chaitanya like Vṛindāvana Dās's Chaitanya Bhāgavata and Jayānanda's Chaitanyamangala and a host of others have helped in the study of the life and philosophy of Śrī Chaitanya. Śrī Chaitanya embodies Kṛishṇa, and Rādhā combined. He is considered to be an avatāra of Kṛishṇa, nay Kṛishṇa himself. But love for Kṛishṇa can be tasted deeply only by Rādhā, the eternal consort of Kṛishṇa — and hence Chaitanya considered himself to be Rādhā, enjoying the pleasures of communion with Kṛishṇa. He displayed his love for Kṛishṇa through tears and love-trances.

The love of Rādhā falls within the category of madhura rasa (a taste for sweetness), which is the highest and the most difficult of the five principal categories of the manner in which God can be worshipped, namely, śānta rasa (a taste for quietness), dāsya rasa (a taste of the devotion of a servant), sakhya rasa (a taste of the love of a frined), and vātsalya rasa (a taste of affection for the junior). All this is, however, immersed in bhakti or love for God, who enjoys it through frolics with his associates. Srī Chaitanya highlighted madhura rasa, which formed the basis of Gaudiya Vaishnavism.

Śrī Chaitanya advocated that one should keep company with the people worshipping Krishna, sing his name, listen to the stories of Krishna's frolics, reside at Vrindāvana, at least, mentally and worship his image. The worshipper should also consider himself to be Krishna, be tolerant and respectful to others and live a restrained life. The Vaishnavite followers thus only tried to imitate Śrī Chaitanya for religious attainments, the initial prerequisites being love and kindness for mankind, irrespective of caste or creed, and surrender to Lord Krishna.

The Rādhā-Krishna cult which developed amidst the free life of the Sahajiyā sect gave rise to the Vairāgī-Vairāginī sect, showing signs of degeneration in some quarters from time to time.

The basic simplicity of the Gaudiya Vaishnavism or Chaitanyaism has still its appeal to the common people who attend various Vaishnava festivals of the district.

A visit to Navadwīp, the birth place of Śrī Chaitanya, and an *itineraire* through nine villages in the neighbourhood, have always been considered sacred to the Vaishnavas and the Hindus in general. The *Bāradol* festival of Krishnanagar, said to be 200

Vaishņava fairs and festivals

years old, attracts a large number of pilgrims from all corners of the State, as the $R\bar{a}s$ festival of Shāntipur draws thousands of persons every year. Numerous $Ratha-y\bar{a}tr\bar{a}$, $Dol-y\bar{a}tr\bar{a}$, Jhulan-yatra, $R\bar{a}s-y\bar{a}tr\bar{a}$, $Gosh!h\bar{a}sh!am\bar{\imath}$, $Janm\bar{a}sh!am\bar{\imath}$ festivals are celebrated in the district. All these festivals centre mainly upon the activities of Kṛishṇa, the legendary hero, whose images under different names appear in the district. Of course, a new fillip to the worship of Kṛishṇa was given by $\$r\bar{\imath}$ Chaitanya.

śäktaism or śakti worship in the district has its historicity since the days of Krishnananda Agambagis, the author of Tantrasāra a treatise on Tantra, who flourished in Navadwīp in the sixteenth century A.D. The image of Kalī in which she is worshipped now is said to have been delineated by him. In Navadwip town, Kālī is worshipped in different localities under various names like Bhadrakālī, Śabśivā, Ranakālī, Krishnakālī, etc. As in other places of West Bengal, the worship of Kälī takes place in many other places of the district, sometimes under various forms. For instance, in mauza Rūpdaha (J.L. No. 24) in Krishnanagar police station, Kālī is worshipped in the Bengali month of Baiśākha, and has no image of its own, only a stonepiece serving as the image. Similar worship takes place in mauza Jasra in Chākdaha police station, where Kālī takes the name of Buro-Mā. Strangely enough, Kālī images of Shāntipur join the procession during the Vaishnavite Rās festival - probably, displaying a close association of Vaishnavite and Sakta worship in the district.

Sāktaism also finds expression through the worship of Jagad-dhātrī in Krishnanagar town. Said to have been started by Rājā Krishnachandra or one of his descendants, the worship of the goddess takes place for a day in autumn. Other images of Sakti in the district in which she is worshipped are Durgā, Yaśadāyinī, etc.

Saivism finds expression best through the worship of Siva, and the festivals following such worship. The $G\bar{a}jan$ festival held in the Bengali month of Chaitra with its stress on voluntary physical torture on the body of the devotee is popular among the lower echelon of the Hindu society. In Navadwīp, Siva is taken on an elevated seat by night, and the devotees dance with much enthusiasm taking the seat of Siva on their head. There the bathing ceremony of seven images of Siva takes place under the name of Satgājan, Phul, Phal, Nīl and Chadak. Similar worships styled Chadak, Gājan and Nīl take place in mauzas

Sāktaism and Sākta festivals

Saivism and Saiva festivals

Kalyāṇdaha (J.L. No. 43) in Chāprā police station, Tungi (J.L. No. 55) in Krishnaganj police station and in many other places. Sivarātri is a common festival held in the name of Siva throughout the district.

Other Hindu deities

Of the numerous folk deities, worshipped by different classes of people in the district, mention may be made of Pañchānanda, the little god of the ghosts who also looks after ailing children. He is worshipped at mauza Hariśpur (J.L. No. 54) in Krishnanagar police station and at mauza Bekoail (J.L. No. 79) in Nākāsipārā police station in the Bengali months of Māgh and Jyaishṭha respectively. Manasa and Khedāiṭhākur, the snakegoddess and snake-god, are worshipped in mauza Jalkar Mathurāpur (J.L. No. 71) in Chāprā police station and in mauza Mathurgāchhi (J.L. No. 152) in Chākdaha police station in the Bengali months of Jyaishṭha and Śrāyaṇa respectively. Ulāi Chaṇḍī, Śītalā and Dharmarāj are also worshipped in different mauzas of the district.

Islam

Islamic influence in the district began with the conversion of people during the Afghan rule in the pre-Mughal days. The district was also centrally located on the highway between Murshidābād and Dacca, the great Muslim settlements of those days. A large number of Muslims of the district left for East Pakistan (now Bānglādesh) some of whom returned subsequently, and a good number of police stations with Muslim concentration have gone over to East Pakistan (now Bānglādesh) during the partition in 1947. As in older days, the Muslim population is divided into several classes, namely, śaikhs, Jolāhas, Asrafs, Pāṭhāns and Saiyads.

Muslim fairs & festivals The Sufis, who were called Pīrs in popular parlance, played an important role in the propagation of Islam among the masses in the medieval days. They imparted instructions, made disciples and sometimes settled and died here. Their seats and tombs are still held in reverence and are visited by pilgrims of all classes on certain days every year. Fairs and festivals are also held in memory of those Sufis.

Christianity

The early history of the spread of Christianity in the district can be traced from 1822 when three Church of England missionaries visited Shāntipur and opined that it would make a suitable mission station. In 1838, several people were baptized in Krishnanagar, Ānandābās and other places. A large number of people were earlier distressed by floods in 1838 and they hoped that by admitting themselves to the Church they

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would get economic relief. In 1840, mission houses were built at Chāprā and elsewhere and in 1841, the churches at Chāprā and Krishnanagar began to be constructed. Subscriptions were raised for the construction of the church at Krishnanagar on condition that services would be held both in English and Bengali. The churches were opened in 1843. In 1886, a meeting of the Nadia District Native Church Council was held to congregate the native christians of the district. Steps were also taken to spread Christianity in the northern part of the district the same year. The churches continued to serve the congregation by opening new schools, dispensaries, etc.

In 1893, the Ranaghat Medical Mission was established and it continued to work along the principles of the Church of England. In 1906, it was made over to the Church Missionary Society.

In Krishnanagar, the Cathedral Church of the Divine Saviour was built in 1898 along with boarding schools and orphanages for Bengali boys and girls.

As a result of the activities of the Christian missionaries in the district right from the beginning of the last century, Christians have become an important constituent of the social structure of the district.

The district has seen the rise of many big and small religious movements from time to time. In recent years also some religious movements, based upon the birth and death of some religious leaders, have found expression through fairs and festivals in different parts of the district as stated below.

Kartābhajās (worshippers of the lord) forming a religious sect peculiar to the district, are located in Ghoshpara (J.L. No. 63) in Kalyānī police station. Likened to the Auliyā system of Vaishnavite worship which seeks for maner mānush (the man of the mind's choice), the sect with śrimad Aulchand as its preceptor considers the guru as the representative of God and does not differentiate between man and man. With the death of Aulchand in A.D. 1769, Rāmśaran Pāl, one of the twenty-two disciples of Aulchand, became guru and on his death his wife worshipped as Satī-mā by The initiates gather, especially during thousands of her disciples. Dol-pūrnimā (full-moon day in the Bengali month of Phālgun) at the dilapidated residence of Rāmsaran Pāl to pay respect to the memory of $Sat\bar{\imath}$ - $m\bar{a}$ who is said to have attained spiritual enlightenment there. The members of the sect emphasize practice of the true or the easy religion (Satya Dharma or Sahai

NEW RELIGIOUS LEADERS AND MOVEMENTS

Kartābhajās

Dharma) in order to develop the hidden divinity in man. Such development can be accomplished 'not by renouncing the world and its cares as something transitory and illusive, but by going through life's struggles manfully and heroically, sustained throughout with love for mankind and reverence for nature'. They are not atheists and believe in a personal God whom they love and adore. The democratic and liberal character of the sect has drawn members from different religious groups as also from the lower classes of the Hindus.

The Matuās are the followers of Hariṭhākur, composed mainly of Namasudras who have come over to this State from East Bengal (now Bānglādesh) in the wake of the partition. In mauza Barachāndghar in Kālīganj police station, the festival in memory of the birth of Hariṭhākur is held in the Bengali month of Chaitra every year.

The religion advocated by Harithākur is simple and understandable to the common folk who become immersed in love for the guru (preceptor) and for the common man.

The upper caste Hindus like the Brahmins and Kāyasthas do not find mention in the recent Census reports, though there is ample reference to them in earlier reports.

The Brahmins of the district are mainly divided into two classes, namely, Rādhī and Vārendra. While the former came from the districts west of the Bhāgīrathī, the latter came from the country north of the Padmā. They held honoured position and had considerable influence in old-time society, and even to this day they are numerous in the Rānāghāt Subdivision and in the southern part of the Sadar Subdivision, but scarce in the centre of the district. They are thus numerous in those parts of the district where the influence of the Nadia Rāj was the strongest. The Rāj family, and especially Rājā Krishnachandra Ray, always patronized the Brahmins by granting sanads to them; and a saying is current that a Brahmin, whose house is not on rent-free land granted by Krishnachandra, is not a true Brahmin at all.

In Brihaddharma Purāṇa and in Brahmavaivarta Purāṇa the Kāyasthas have been described as Karaṇas or persons doing clerical duties. By the end of the Sena period in Bengal, they attained the status of \$at-\$\tilde{u}dras\$ of the highest order being engaged

Matuās

CASTE

Brahmin

Kāyastha

¹ J.H.E. Garrett, Bengal District Gazetteers: Nadia, Calcutta, 1910, pp. 48-9.

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in administrative duties under the ruler. They are most numerous in the Kālīganj, Krishnanagar and Nākāsipāra police stations of the district.

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Māhishya

The Māhishyas claim a higher status in caste hierarchy, which the higher castes are reluctant to accept. It has been said that the Māhishyas are none but Hāliā or Chāshi-Kaibartas, one of the three endogamous groups of Kaibartas of Bengal, the other two being Ādi or Jāliā Kaibartas and Pāṭni Kaibartas. As the Chāshi-Kaibartas or Māhishyas became engaged in agricultural pursuits, they gained a higher status in caste hierarchy than the Kaibartas of other types doing fishing, etc.

In the district, they came to prominence since the days of the East India Company when plantation of indigo was undertaken. They worked under the planters and were considered to be good cultivators since that time.

The Goālās or the cow-herds form a sizable population of the district. They were inducted from outside the district for working as guards or lāthiāls of the Nadia Rāj. In course of time, their descendants became cultivators and makers of butter, cheese and ghee—the last three things being sent to Calcutta markets daily.

Goālā

Apart from many other Hindu castes and classes, the district is inhabited by 3,50,162 persons belonging to the Scheduled Castes according to the Census of 1961. They form 20.44 per cent of the total district population and 5.08 per cent of the State Scheduled Castes population.

Scheduled Castes

The number of different classes of Scheduled Caste people inhabiting the district according to the Census of 1961 has been given in Appendix E.

Scheduled Tribes

The district is inhabited by 21,923 Scheduled Tribes people according to the Census of 1961. They formed 1.28 per cent of the total population of the district and 1.07 per cent of the State Scheduled Tribes population.

Muslims

The number of different Scheduled Tribes people, as found in the district, according to the Census count of 1961 has been given in Appendix F.

It has been surmised that conversion to Islam in this district was prior to conversion in Eastern Bengal (now Bangladesh); that in Nadia the Afghans first preached Islam, while on the east the Mughals did the preaching. Chaitanyaism, a product

¹ J.M. Pringle and A.H. Kemm, Government of Bengal: Final Report on the Survey and Settlement Operations in the District of Nadia: 1918-1926, Calcutta, 1928, p. 22.

Christians

of the district, which advocates universal brotherhood like Islam, may also have influenced the Muslims of the district and brought them closer to the Hindus.¹

Divided into two groups, Protestants and Roman Catholics, the early converts to both groups came mostly from among the Muslims, and not the Hindus as in other parts of Bengal.

In the early period of the spread of Christianity, that is, in the latter half of the nineteenth century, the Protestants put stress on education, technical or otherwise, both for boys and girls. The Roman Catholics tried to improve the existing conditions of life of the converts by paying off their debts to landlords.

The Catholic Church has spread itself out in Krishnanagar, and has built a big church. The Church Missionary Society has also a long history in the district and has extensive colonies in Chāprā and Tehatta.²

A sample survey based on 20% of the households in the district undertaken during the 1961 Census gives an idea about the size of households in the rural and urban areas of the district.

NO. OF MEMBERS IN 20% OF RURAL AND URBAN HOUSEHOLDS IN NADIA DISTRICT: 1961

		(S.)	Size of Sar	nple House	holds	4.0
	Total No. of sample House- holds	Single Member House- holds	2-3 Member House- holds	4-6 Member House- holds	7-9 Member House- holds	10 Members and over House- holds
Total 、	63,643	4,529	13,824	27,067	13,180	5,043
Rural Areas	50,866	3,355	10,768	21,963	10,748	4,032
Urban Areas	s 12,777	1,174	3,056	5,104	2,432	1,011

It appears that households with 4-6 members are greater in number than with 2-3 members in both the rural and urban

HOME LIVE SIZE OF HOUSEHOLDS

B. Ray, op. cit., p. 54. Also cf. "The Church Missionary Society began work in Bengal in 1807.... Burdwan became an important educational centre of the C.M.S. in Bengal. From Burdwan, the missionaries went to Culna in 1825. Krishnagar and Nadia in 1831" (K. P. Sengupta, The Christian Missionaries in Bengal: 1793-1833. Calcutta, 1971, pp. 28-30.)

pp. 38-39.)

² Loc. cit.

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areas of the district. Households with 7-9 members and 10 members and over progressively decline in number. Single-member households apart, 2-3 member and 4-6 member households appear to be constituted of nuclear families, while 7-9 member and 10+ member households may stand for extended families.

The dwellers of one-roomed houses constitute 74.46 per cent of the district population, thus topping the list of dwellers in one-roomed houses in all the districts of the State. The dwellers of two-roomed and three-roomed houses, on the other hand, constitute 17.04 and 4.46 per cent respectively of the district population. The number of dwellers of three-roomed houses is the lowest in this district in relation to such dwellers of all the other districts. All this shows the low standard of living in the rural areas.¹

In rural areas most of the houses are bereft of any furniture. While the richer agriculturists are found to use bedsteads, a stool or bench, the poorer section use $ch\bar{a}t\bar{a}i$ or $p\bar{a}t\bar{t}$ (mat) as the main item of furniture. In urban areas, chairs, tables and stools are commonly found in middle class families. Rural women decorate their houses with $\bar{a}lpan\bar{a}$ drawings on festive occasions. Framed photographs of deities may also be found hanging on the walls. In town areas the middle class families use door and window screens and sometimes grow gardens if there is space in front of their houses.

The table in Appendix G, based on 20% sample, indicates the composition of households in the rural and urban areas of the district as revealed during the 1961 Census. The table indicates that males, rather than females, constitute the heads of households in a large number of cases. Females, on the other hand, outnumber males as spouses of the heads of households, possibly revealing that whenever there are female heads of households they are mostly widows. The table will also indicate that unrelated persons have a large part to play in the composition of households. Such persons may be servants or helping hands and are mostly to be found in the rural households.

While human abodes during the days of feudal overlords or during the early days of British rule gave Krishnanagar a sophisticated look in spite of its division into several overpopulated Composition of households

Settlement pattern

¹ Nadia: Swādhīnatār Rajat Jayantī Smārak Grantha (in Bengali), (ed.) Nadia Jela Nagarik Parishad, Krishnanagar, 1973, p. 13.

municipal wards, pilgrim centres like Shāntipur, Navadwīp, etc. had a dingy appearance with the permanent residents and periodic visitors. Displaced persons coming from East Pakistan (now Bānglādesh) over the last twenty years have added to the overcrowding of the urban areas. The only planned township is to be found in Kalyāṇī, followed by the Haringhātā farming area and other Government sponsored colonies for refugees.

The urban houses are mostly built of brick and mortar having pucca roofs or roofs made of corrugated iron-sheets, etc.

In the rural areas, the picture remains as in older times. The settlement pattern is sometimes linear, houses being situated by a broad road. Sometimes the houses are situated around a big pond or a village market.

The rural houses are mostly made of mud or split-bamboo, besmeared with mud, having a thatched roof above. Houses with roofs of corrugated iron sheets, tiles or asbestos sheets are also to be found. The well-to-do and the middle class also live in pucca houses built of brick and mortar. Bamboo, palmyra palms, straw and mango-wood are freely used in the construction of rural houses. The houses in the rural areas are mostly one-storeyed with four sheds $(ch\bar{a}r\text{-}ch\bar{a}l\bar{a})$ or with two four-shed structures $(\bar{a}t\text{-}ch\bar{a}l\bar{a})$, one standing upon another. Two-storeyed mud-houses can also be seen there. The houses are mostly of a traditional pattern with rooms facing a big courtyard within.

The table in Appendix H gives an idea of the marital status and marriageable age for both males and females as prevailing in the district according to the Census of 1961.

The said table reveals that persons below ten are generally unmarried, they being so treated in the Census of 1961. Figures for unmarried males progressively declined beginning from the 10-14 age-group. Married males were the largest in number in the 20-34 age-group both in the rural and urban areas. Widowers, comparatively in large numbers, are to be found in the age-group above 70. Cases of divorce or separation are negligible, and are largest only in the 20-34 age-group.

Leaving aside the 0-9 age-group, unmarried females are most numerous in the 10-14 age-group. The figures for unmarried females declined over the following age-groups. Married females recorded highest figures in the 20-34 age-group, while widows were most numerous in the 50-54 age-group.

The following table gives an idea of the civil condition of 1,000 persons of each sex durng 1901 and 1961. The figures

Marriage

Age at marriage

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for 1961 do not include the persons who have been enumerated as divorced or separated, but their figures are negligible. It will be seen that the number of unmarried males and females is the highest in the 0-10 age-group in both the Census counts of 1901 and 1961. Married males were most numerous in the 15-40 age-group in 1901. In 1961, they predominated in the age-group beyond 40, leading to the conclusion that favourable economic conditions delayed marriages on the part of the males at the end of the sixty years beginning from 1901. The position of married females remains static in 1961 as in 1901, the largest number of married females being found only in the 15-40 age-group.

CIVIL CONDITION OF 1,000 PERSONS OF EACH SEX IN NADIA DISTRICT: 1901-61

			Males		B F	'emales	
	τ	nmarried	Married	Widower	Unmarried	Married	Widower
All ages	1901 1961	527 589	438 381	35 26	282 452	456 397	262 149
0-10	1901 1961	286 1,000	1/	11 777	257 1,000	22 —-	1
10-15	1901 1961	128 993	5 5	_ ∄(22 813	75 182	3 1
15-40	1901 1961	108 420	255 566	7 रमेव ज्यान	3 77	306 847	30 68
40+	1901 1961	5 24	177 857	28 114	15	53 378	178 601

Monogamy is usually the accepted form of married life. The restrictions on marriage alliance, based on castes, sub-castes and gotras, still prevail among the Hindus. Traditional marriage customs and rituals with the utterance of mantras by the priest still characterize Hindu marriages. Among the Muslims, marriage is likewise solemnized by the mullas or $k\bar{a}zis$. Though intercaste and inter-religious marriages are now permissible under Act XXI of 1949 and the Hindu Marriage Act of 1955, such marriages are not very popular.

Though legalized since 1856, widow remarriage has not been popular among the Hindus of the district as in other places. It appears that out of 32 marriages registered between 1955 and 1959 there were only 5 widow marriages.

Widow remarriage Divorce

Though not a custom among the Hindus, divorce was permitted under Act XIX of 1946, the Special Marriage Act of 1954 and the Hindu Marriage Act of 1955. Divorce is, however, mostly confined to the urban educated classes. The following table would reveal the number of divorce cases among the Hindus and Muslims of the district about a decade ago.

DIVORCE CASES IN NADIA DISTRICT: 1954-60

			Ca	ses	
	•	Filed	Decreed	Rejected	Otherwise disposed of
	1954				
	1955	3	3		
	1956	4			4
Hindu Marriage Act	1957	15	5	1	9
	1958	9	O 3		6
	1959	7	3953 1		6
	1960	12	1		2
	1954	12	209 4	1	7
	1955	17	8	1	10
	1956	17	8	1	8
Muslim Marriage	1957	9	3		. 6
	1958	4 4	1		4
	1959	19	8	1	10
	1960	10	2		

By and large the womenfolk are economically dependent on the male members of the family. In the urban and semi-urban areas, however, women of the middle class and lower middle class families are now working on the same footing with men to supplement the income of a family. Women of the lower class families also engage themselves as day labourers and wage earners.

Prostitution is non-existent except very sparsely in some municipal areas. Instances of traffic in women are hardly noticed.

The inheritance of property is guided by Hindu Law ($D\bar{a}ya-bh\bar{a}ga$ system) as amended by the Hindu Succession Act so far as the Hindus are concerned, while for the property of the Muslims, Muslim Law is applicable.

While joint families are still to be found in rural areas, economic and other pressures are splitting up such families in urban areas.

Property inheritance

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In their food habits and dresses the people are simple and unassuming. A cloth or a lungi and half-shirt for males and $\delta \bar{a}ri$ for females are the general dress of the common people in rural areas. A blouse and undergarments have been accepted in some families. In middleclass families dhuti, $p\bar{a}nj\bar{a}bi$, shirt, pump-shoes or sleepers are generally used. Of late, use of trousers, Hawaian shirts, $p\bar{a}ij\bar{a}m\bar{a}$ are very much in use in place of old dhuti and $p\bar{a}nj\bar{a}bi$. The womenfolk usually dress in $\delta \bar{a}ri$, blouse, undergarments with slippers as foot-wear. They prefer the handloom variety of $\delta \bar{a}ri$ to mill-made ones. Small girls use frocks and underpants. Young girls are fond of using coloured ribbons as a part of their hair dressing.

Womenfolk of the middleclass families use golden churi, necklace and ear-rings. In poorer families, the use of churi made of plastic or glass is in vogue. In well-off houses, the ladies use gold ornaments of various designs decorating more profusely their arms and necks. Generally, the Hindu married women use conch and iron bangle (INI). Use of silver ornaments is in vogue amongst the ordinary Muslims and tribals.

Rice, $d\bar{a}l$, vegetables and fish are the principal items of food. Egg, meat, butter, etc. are taken only in well-to-do families. To the common people it is a luxury. Because of scarcity of rice, the people, particularly the town-dwellers, have developed the habit of taking wheat products as a principal or secondary meal. The habit of taking tea is fast spreading even among the common people in rural areas. Even in $h\bar{a}t$ and $b\bar{a}z\bar{a}rs$ in remote corners of the district tea-stalls are found. Fruit is taken only by the richer people, except when fruits are available in plenty during particular seasons, for example, mango, jackfruit, black-berry, etc. when the poorer section also share them.

Cinema in the towns provides the people with cheap amusement. Its attraction is very much on the increase and has made inroad even into the adjacent rural areas. The public stages in urban areas afford opportunity to the dramatic clubs to stage dramas and occasional performances in those stages are also another source of amusement to the people. Apart from this, the performance of jūtrā, kīrtan and occasional cultural functions organized by different institutions also provide people with amusement. Kathakatā and recitals from the Rāmāyaṇa or Mahābhārata, are performed by a Brahmin in every thākurbādī in Navadwīp town. The audience mainly consists of illiterate females and old men. Such Kathakatās go on every night for

about three hours at a stretch. Navadwip and Māyāpur are famous for such kathakatās. In the rural areas, kīrtan, the Rāmāyaṇa songs, yātrā, kabi are the principal sources of amusement. Besides these, the traditional Durgā-utsav, Dôl, etc. for Hindus and Id or Mohurram for Muslims and melās associated with them, attract streams of people even from the distant areas. They provide recreation to them. Independence Day, Republic Day, etc. are also observed all over the district in a befitting manner.

Drinking is prevalent among the backward sections of the people, particularly the tribals. Gambling is prevalent to a small extent in $h\bar{a}ts$, $b\bar{a}z\bar{a}rs$ and fairs.



APPENDIX A

POPULATION OF ADMINISTRATIVE DIVISIONS OF NADIA DISTRICT: 1872-1971

	1971**	*1961	1951*	1941*	1931*	1921*	1911*	1901*	1891+	1881+	1872+
Nadia District	22,30,270	17,13,324	11,44,924	8,40,303	7,21,907	7,11,706	7,75,986	7,73,202	7,73,016	8,08,092	7,46,884
Sadar Subdivision	13,11,108	10,11,808	7,06,616	5,80,657	5,49,684	4,73,728	5,25,692	5,27,866	5,05,616	5,21,547	4,79,884
Krishnanagar P.S.	2,72,958	2,19,381	1,61,726	97,997	85,451	84,805	93,005	88,965	76,355	19,494	68,557
Navadwip P.S.	1,60,570	1,25,142	91,380	54,208	39,962	34,120	36,914	35,411	36,318	37,810	32,606
Chāprā P.S.	1,35,634	1,10,754	77,675	70,321	62,990	59,263	64,116	935,19	63,082	65,674	56,630
Krishnagani P.S.	68,756	52,034	38,696	34,102	28,846	28,492	35,752	37,681	32,658	32,701	29,712
Nakāsipārā P.S.	1.60,232	1.19,176	81,747	66,827	56,749	52,898	56,163	56,719	56,385	59,762	55,904
Kaligani P.S.	1,48,465	1,12,325	77,305	63,391	53,247	47,414	53,122	52,792	46,845	54,192	50,633
Tehatta P.S.	1,77,013	1,33,803	90,402	92,539	80,083	83,441	92,270	93,848	87,121	89,160	88,500
Karimpur P.S.	1,87,480	1,39,193	87,685	1,01,272	88,717	83,295	94,350	1,00,944	1,06,852	1,02,754	97,340
		,			0.00	200000	200.00	766 39 6	0.04 67 6	2 06 545	000 63 6
Rānāgh t Subdivision		7,01,516	4,38,308	2,39,540	730,07	0/2/10/4	4,30,434	2,43,330	7,0,7	C.00,2	4,0,70,7
Rānāghāt P.S.		2,51,657	1,51,852	82,073	71,988	75,152	80,438	76,144	77,307	84,410	79.107
Chākdaha P.S.		1,86,038	1,17,495	63,862	55,206	61,803	62,750	62,755	67,831	70,689	66,462
Haringhātā P.S.		67,324	37,927	27,498	24,361	28,185	28,617	28,619	30,934	32,237	30,309
Hanskhali P.S.	1,14,206	84,065	51,370	31,127	27,142	26,936	29,542	28,259	37,364	45,340	40,034
Shantipur P.S.	1,44,311	1,12,432	79,664	55,086	47,165	45,902	48,947	49,559	53,934	53,864	50,435
Kalyāni P.S.	61,919	1	ı	1	1	l	ł		ļ	ļ]

**Vide Census of India, 1971, West Bengal, General Population Tables, Delhi, 1973, pp. 20-21.

*Vide B. Ray, Census: 1961: West Bengal: Census Hand Book: Nadia, Calcutta, 1967, p. 33.

+ Vide A. Mitra, Census: 1951: West Bengal: District Hand Books: Nadia, Calcutta, 1953, p. xiii.

APPENDIX B

PERCENTAGE VARIATIONS IN POPULATION OF NADIA DISTRICT: 1872-1961

	1951-61	1941-51	1931-41	1921-31	1911-21	1901-11	1891-1901	1881-91	1872-81
Nadia district*	+49.65	+36.3	+16.4	+ 1.4	8.3	+ 0.4	+ 0.0	+ 4.3	+ 8.2
Sadar Subdivision	+43.2	+22.4	+18.1	+ 5.6	7.6 —	9.0 —	+ 1.5	3.1	+ 8.7
Krishnanagar P.S.	+35.6	+72.5	+20.9	+ 5.7	- 7.6	+ 4.2	_ 2.5	- 3.9	+16.0
Navadwip P.S.	+36.95	+68.6	+35.6	+17.1	9.2 —	+ 4.2	- 2.5	- 3.9	+16.0
Chāprā P.S.	+42.59	+10.5	+11,6	+ 6.3	9.7 —	+ 4.2	- 2.5	3.9	+16.0
Krishnaganj P. S.	+34.47	+13.5	+18.2	+ 1.2	-20.3	- 5.1	+15.4	- 0.1	-10.1
Nakāsipārā P.S.	+45.79	+22.3	+17.8	+ 7.3	- 5.8	-1.0	+ 0.6	- 5.7	+ 5.9
Kāliganj P.S.	+45.30	+21.9	+19.0	+12.3	-10.7	+ 0.6	+12.7	-13.6	+ 7.0
Tehatta P.S.	+48.01	- 2.3	+15.6	- 4.0	9.6 —	- 1.7	+ 7.7	2.3	+ 0.7
Karimpur P.S.	+58.74	-13.4	+14.2	+ 6.5	-11.7	- 6.5	- 5.5	+ 4.0	+ 5.6
Rānāghāt Subdivision	+60,1	+66.2	+13.0	- 6.2	- 5.5	+ 2.2	- 2.8	6.7	+ 7.3
Ranaghat P.S.	+65.73	+88.0	+14.0	- 4.2	9.9 —	+ 5.6	- 1.5	4.8	+ 5.8
Chākdaha P.S.	+58.34	+84.0	+15.7	-10.7	- 1.5	-0.0	- 7.5	- 4.0	+ 6.4
Haringhātā P.S.	+77.51	+37.9	+12.9	-13.6	- 1.5	-0.0	- 7.5	- 4.0	+ 6.4
Hänskhäli P.S.	+63.6	+46.9	+ 1.9	- 8.0	-11.0	+ 5.1	+14.5	-17.6	+13.3
Shāntipur P.S.	+41.13	+44.6	+16.8	+ 2.8	6.2	- 1.2	8.2	+ 0.2	+ 6.8

*30.14 in 1961-71.

APPENDIX C

	DENS	ITY OF I	DENSITY OF POPULATION (PER		Q. MILE)	SQ. MILE) IN NADIA DISTRICT: 1872-1961	DISTRI	CT: 1872-1	1961		
	1761	1961	1951	1941	1931	1921	1911	[1001]	1891	1881	1872
Nadia district	1,471	1,135	759	558	478	472	514	512	512	536	495
Sadar Subdivision	1,342	1,035	726	594	502	475	523	530	522	538	495
Krishnanapar P.S.	1.728	1 493	1 141	664	547	518	260	538	551	574	495
Navadwip P.S.	3,994	3,113	2,273	1.355	994	849	918	881	903	941	811
Chāorā P.S.	1,132	847	594	537	482	453	490	470	482	202	433
Krishnagani P.S.	1,179	891	663	638	494	488	612	645	559	260	2 03
Nakasinara P.S.	1,145	852	584	477	406	378	401	405	403	427	2
Kaligani P.S.	1,197	ş	623	561	429	382	428	426	378	437	408
Tehatta P.S.	1,083	819	553	529	490	511	565	574	533	546	542
Karimpur P.S.	1,080	805	505	589	511	480	543	581	919	292	261
Ranaghat Subdivision	1,728	1,319	818	493	436	465	492	481	495	530	494
Rangohat P.S.	1.826	1 471	888	480	421	439	470	445	452	493	466
Chakdaha P.S.	2,028	1,479	934	207	439	492	499	499	539	295	228
Haringhātā P.S.	1,471	1,036	583	423	375	434	4	440	476	496	466
Hānskhāli P.S.	1,204	886	534	364	356	387	435	414	362	439	388
Shantipur P.S.	1,927	1,497	1,062	734	629	612	653	199	720	718	672
Kalyāņi	1,932			1	1		1	1	1	1	į

APPENDIX D

GROWTH OF POPULATION IN THE TOWNS OF NADIA DISTRICT: 1901-71

	1761	1961	1951			1921	1161	1901
Navadwip*	94,204 (+29,29)	72,861 (+29,42)	56,298 (+84.08)			15,854 (+24.87)	12,480 (+14,71)	10,880
Krishnanagar*	85,923	70,440	50,042			22,309	23,475	24,547
Shāntipur*	61,166	51,190	42,413			24,792	26,703	26,898
Rānāghāt*	47,815	35,266	28,064	16,488 (±44.70)	11,395 11,395	9,652	9,850	8,744
Chākdaha≭	46,345	35,089	15,372			6,216	4,931	5,482
Birnagar*	10,560 (+38,53)	7,623	3,893 (±114,73)			2,305	2,654	3,124
Tāherpur*	13,104	12,211						1
Gayespur Government Colony	13,082	10,157	Ī		ì	1	i	1
Kataganj & Gokulpur	8,209	7,544	i			į	ł	1
Kalyāņi+	18,310	4,616	ı			I	l	1
Bagulā+	6,799	4,530	İ			i	ł	1
Phuliä +	(+21.41)	3,811	1			1	1	i

+Non-municipal areas. (The figures in brackets indicate percentage decade variations). *Municipal areas.

PEOPLE 107

 ${\bf APPENDIX~E}$ No. of scheduled castes people in Nadia district : 1961

•			Total	
Name of Scheduled Caste		Persons	Males	Females
Total ¹	Rural	3,24,921	1,67,579	1,57,242
	Urban	25,241	13,425	11,816
Bāgdi or Duley	R	38,581	20,261	18,320
	U	1,862	951	911
Bāheliā	R U	911	433	478 —
Bāiti	R	1,020	501	519
	U	17	16	1
Bāuri	R	1,680	822	858
	U	157	58	99
Bediyā	R U	397 14	201 14	196
Beldar	R U	76 —	43	33
Bhuaimali	R	2,598	1,296	1,302
	U	196	96	100
Bhuiyā	R	994	493	501
	U	111	99	12
Vi.	R	2,534	1,301	1,233
	U	158	83	75
Chāmār, Muchi,	R U	27,900	14,478	13,422
Ruidās or Rishi		2,212	1,359	853
Dhobă or Dhobi	R	4,006	2,066	1,940
	U	1,677	937	740
Doai	R U	325 1	159	166 1
Dom or Dhāngaḍ	R	722	392	330
	U	373	182	191
Dosādh or Dusādh including	R	279	234	45
Dhāri or Dhārhi	U	19	14	5
Ghāsi	Ř	46	28	18
	U	91	61	30
Gonrhi	R	42	26	16
	U	44	32	12

In 1971, there was a total of 4,35,972 (2,24,448 males and 2,11,524 females) Scheduled castes people in the rural areas of the district. In the urban areas they numbered 39,157 (20,629 males and 18,888 females).

	APPENDIX	E	Total	(Contd.)
Name of Scheduled Caste	-	Persons	Males	Females
Hārr	R	2,539	1,270	1,269
	U	586	388	198
Jāliā Kaibartta	R	5,008	2,656	2,352
	U	974	629	345
Jhālo Mālo or Mālo	R	27,079	13,985	13,094
	U	1,395	475	920
Kadar	R U	25		21
Kandra	R U	117 31	53 31	64
Kaorā	R	735	363	372
	U	22	20	2
Kaur	R U	3	3	
Keot or Keyot	R	97	86	11
	U	88	28	60
Khairā	R	326	168	158
	U	5	1	4
Koch	स $^{R}_{U}$ भव जयते	1	1_	
Kotāl	R U	39 11	24 11	15
Lälbegi	R U	4	3	_
Lohār	R U	1,086 7	563 7	523
Mahar	R	7	3	4
	U	49	17	32
Măl	R	284	138	146
	U	39	22	17
Mallah	R	277	159	118
	U	355	257	98
Mehtor	R	444	303	141
	U	448	300	148

	APPENDI	ΚE	Total	(Contd.)
Name of Schedule Caste		Persons	Males	Females
Musāhar	R U	109 1	64	45 1
Namasudra	R	1,59,952	82,623	77,329
	U	7,960	3,844	4,116
Nuniya	R	352	253	99
	U	38	38	—
Pāliyā	R U	13	<u>13</u>	-
Pasi	R	232	128	104
	U	94	49	45
Pātni	R	2,154	1,144	1,010
	U	18	10	8
Pod or Poundra	R	7,794	3,615	4,179
	U	128	31	97
Rājbansi	R	11,788	5,968	5,820
	U	951	430	521
Rājwār	R	6,421	3,182	3,239
	U	8	3	5
Sunri excluding Saha	स् <mark>ष</mark> ामेव ज	388 294	211 130	177 164
Tiyar	R U	286 7	149 7	137
Turi	R	119	69	50
	U	59	53	6
Unclassified	R	15,163	7,654	7,509
	U	4,709	2,732	1,977

APPENDIX F

NO. OF SCHEDULED TRIBES PEOPLE IN NADIA DISTRICT: 1961

Name of Scheduled Tribe			Total	
,		Persons	Males	Females
Total ¹	Rural Urban	21,043 880	10,697 463	10,346 417
Bhūmij	R U	937 —	457 —	480
Chākmā	R U	22 —	20 —	
Gāro	R U	29 —	<u>14</u>	15
Korā	R U	13	-8	5
Lodhā or Kheriā	R U	243 2	122 2	121
Māhāli	R U	25 —	15	10 —
Māl Pāhāriyā	R U Hallan	352 20	197 16	155 4
Mru	R U	372 —	215 —	157 —
Muṇdā	R U	3,185 18	1,557 15	1,628 3
Orãon	R U	9,766 28	4,956 12	4,810 16
Sāntāl	R U	3,909 634	2,016 326	1,893 308
Unclassified	R U	2,202 165	1,128 84	1,075 81

¹In 1971, the scheduled tribes numbered 29,509 (15,099 males and 14,410 females) in the rural areas and 2,290 (1,179 males and 1,111 females) in the urban areas of the district.

APPENDIX G

COMPOSITION OF HOUSEHOLDS IN NADIA DISTRICT: 1961 (BASED ON 20 % SAMPLE)

Persons	Female	903	889	215
Unrelated Persons	Male 📱 Female	2,839	2,377	462
Never married Widowed and Divorced or Separated Relations	Female	92,046	73,798	18,248
Never n Widow Divorc Separated	Male	97,649	78,386	19,263
elations	Other Females	17,699	14,668	3,031
Married Relations	Other Males	6,512	5,289	1,223
	Sons	8,931	7,716	1,215
ads of	Female	47,351	38,829	8,522
Spouses of heads of households	Male	255	111	138
	Female	7,169	5,048	2,121
Heads of Households	Male	56,338	45,726	10,612
ample holds ttion	Female	1,65,168	1,33,031	32,137
Total sample Households population	Male	1,72,524 1,65,168	1,39,611	32,913
		Total	Rural	Urban

APPENDIX H

MARITAL STATUS ACCORDING TO AGE-GROUPS IN NADIA DISTRICT: 1961

		Unmarried p	Unmarried percentage of	Married px	Married percentage of	Widowed p	Widowed percentage of	Divorced percen	Divorced/Separated percentage of
Age group		Males to total male population of the district	Females to total female population of the district	Males to total male population of the district	Females to total female population of the district	Males to total male population of the district	Females to total female population of the district	Males to total male population of the district	Females to total female population of the district
All ages	Total Rural Urban	58.95 47.50 11.45	45.22 36.24 8.98	38.14 31.58 6.56	39.72 33.07 6.65	2.69 2.19 51	14.69 12.15 2.53	.17	£ £ 8
6-0	H & D	31.68 26.55 5.12	33.68 28.35 5.23	ज्ञे(ट) जयन			111	111	. 1 1 1
10-14	F & D F	11.46 9.28 2.18	8.49 6.47 2.02	999 15	1.90 1.1.50 1.1.50	111	<u>9</u> 919	111	20.03
15-19	* # D F	6.22 1.65 7.33	1.07 1.07 1.07	.61 .09 .74	5.31 74 75	1118	9. <u>2</u> . 2. <u>5</u>	1118	g. g. g.
20-34	• & D F	5.04 2.19 77	. 8. 14. 9. 	2.14 2.14 5.14	20,30 16,82 3,54	1. 2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	¥2.23	9. 0. <u>0</u> . 8	zi 6: 6: 6:
35-39	R.	11.1.	કે 1 શે	.95 .95	3.09 .62	.10		70. 0.	.02 .01

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CHAPTER IV

AGRICULTURE AND IRRIGATION

LAND RECLA-MATION AND UTILIZATION

Agriculture is the chief occupation of the people of Nadia district and a little more than three fourths of the total workers of the district are engaged in agricultural pursuits either as a cultivator or an agricultural labourer. According to Census 1961, while only 54 per cent of the total working population of this State are engaged in agriculture, the district has at least 76 per cent of its working population in the agricultural sector. The proportion between the cultivators and agricultural labourers in the district is 2.6: I while it is only 2.5: I in the State which indicates that the cultivators of this district bear a larger proportion to the agricultural labourers than in the State as a whole.

In general, the district is an alluvial plain dotted with villages surrounded by clusters of groves and intersected by numerous small rivers, abandoned river courses, minor streams and bils or lakes. At the time of the settlement of 1918-26, about 70 per cent of the district's total area was cultivated. The extent of culturable area other than current fallows was 1,24,144 acres, the area for current fallows being 89,414 acres. According to Ishaque survey² of 1944-45, the culturable waste lands of the district occurred to the extent of 1.25.868.50 acres and out of this, 17,670 acres in 1,202 blocks had an area between 5 to 100 acres. There were only 74 blocks, which had an area of over 100 acres occupying a total of 17,695 acres.8 During the first quarter of the present century the agricultural conditions of the district was far from satisfactory owing to various causes, such as, the decay of the river system, the growing poverty of the soil and extremely low state of health of the working population. Besides, the prevalent utbandit tenancy introduced an element of insecurity and the consequent reluctance on the part of the cultivators to improve their land also added to the difficulties. This will appear from the statement given below5.

Cultivable waste

¹ B. Ray, District Census Handbook: Nadia, 1961, p. 85.

² Figures for the unpartitioned district,

<sup>B. Ray, op. cit., p. 86.
The word means that the cultivators are mere tenants at will.
B. Ray, loc. cit.</sup>

Description of waste lands	Ishaque survey of 1944-45 (in acres)	Settlement Report of 1918-26 (in acres)
Culturable waste	1,61,239	1,24,144
Unculturable waste	1,08,963	1,02,874
Net cultivated area	6,68,570	7,17,179

Both culturable and unculturable wastes of the district increased during the period under reference. While culturable waste land increased chiefly owing to depopulation, certain areas of unculturable waste increased owing to the opening of new roads, factories, deposition of sands, etc.

During the past two or three decades efforts were made to bring more and more area under tillage through the process of land reclamation. It is common knowledge that the pattern of land utilization does not remain constant all through the years. It changes with the lapse of time. Waste lands are reclaimed every year; roads, buildings and irrigation channels are constructed which create new waste areas from year to year. In recent years, more areas have been reclaimed by private bodies and individuals both for agriculture and other purposes. The table below shows land utilization in the district from 1960-61 to 1964-65.

LAND UTILIZATION IN NADIA DISTRICT (IN ACRES): 1960-651

	The state of the s		1.00	•	
	1960-61	1961-62	1962-63	1963-64	1964-65
Total area of the district	9,65,800	9,65,800	9,65,800	9,65,800	9,65,800
Area under forest	800	1,200	1,200	2,000	2,000
Area not available for cultivation	1,42,200	1,42,300	1,42,300	1,41,700	1,41,700
Other uncultivated land excluding current fallow	47,100	41,000	40,800	39,800	38,500
Current fallow	12,000	8,500	7,200	7,000	6,500
Net area sown	7,63,700	7,72,800	7,74,300	7,75,300	7,77,100
Area sown more than once	3,89,600	4,12,400	4,17,100	4,21,900	4,54,900
Total cropped area	11,53,300	11,85,200	11,91,400	11,97,200	12,32,000

Source: Statistical Officer, Socio-Economic & Evaluation Branch, Agriculture & Community Development Department, Government of West Bengal.

A fairly large proportion of the net area sown is being used in this district to raise more than one crop. The area of double cropping has been gradually increasing. In 1947-48, only 32.65 per cent of net area sown was subjected to yielding more than one crop while this percentage has since been on the increase. As there is not much of land left as margin in the district, more emphasis has been laid on intensive cultivation and the use of high-yielding seeds in recent years.

There are numerous $kh\bar{a}ls$ and bils lying scattered in various police stations of the district. Many of these bils and $kh\bar{a}ls$ join up during rains which give an appearance of a big sheet of water dotted with occasional villages and hamlets on a slightly higher land over them. Paddy grows well in the shallow areas. The $kh\bar{a}ls$ provide outlet for the excess of water.

IRRIGATION

Agriculture of the district is almost entirely dependent on rainfall. Hence, when the rainfall is scanty or very late, the district suffers from failure of crops, the *Kalāntar* tract suffering most. The district was without any coordinated irrigation system in the pre-Independence period and in the early fifties, as a district, Nadia had the smallest irrigation area. In recent years, however, the situation has changed to a considerable extent with the spread of irrigation facilities over a wide area.

Rivers

The rivers of the district do not contribute directly to build up an effective irrigation system. The whole district is a network of moribund rivers and streams, but the Bhagirathi, the Jalangi and the Mathabhanga are the three which are commonly known as the 'Nadia rivers'. As the river system of the district has been elaborately dealt with in Chapter I we need not repeat the same thing here. It may, however, be added that in recent years lift irrigation by pumping river water has been put into practice in selected areas. Details of such irrigation has been given in a separate section where the sources of irrigation of the district have been discussed.

Lakes, marshes and bils

There are numerous lakes, marshes and bils in the district and the names of the chief lakes and marshes have been listed in Chapter I. Of the many bils found in the district, some are of small size, while others are practically inland lakes. Some

¹ S. N. Mukherjee, A Brief Agricultural Geography of West Bengal, Calcutta, 1956, p. 48.

are mere accumulations of water upon low-lying ground, while others are natural drainage basins, the level of which does not admit of drainage. In this connexion the Nadia District Gazetteer of 1910 states: 'No irrigation is practised in the district, the chief reason being that the surface is so uniformly level as to afford little or no scope for canals and distributaries.\(^1\) The Settlement Report of 1918-1926 also states: 'Agriculture is totally dependent on the rainfall. Artificial irrigation is practically unknown. It is resorted to occasionally to foster the growth of special crops such as sugarcane.\(^2\) The picture has since changed to some extent with the introduction of new irrigation schemes in recent years for obtaining better crops and higher yields.

While well irrigation is not in practice in this district, the scope of tank irrigation is also limited as the land is very sandy having little capacity for holding water. Irrigation facilities made available in recent years are mainly lift irrigation, either from deep tube-wells or from shallow bils and shallow tube-wells.

The following two tables will indicate the extent of irrigation facilities available in the district.³

1. AREA UNDER IRRIGATED CROPS IN NADIA DISTRICT (IN ACRES)4

Name of crop	1960-61	1961-62	1962-63	1963-64	1964-65
Rice	8,200	9,600	8,800	9,500	9,700
Wheat	4,700	4,900	5,600	5,200	5,400
Barley	1,900	1,500	1,500	1,000	1,000
Jower				100	100
Other cereals and pulses	1,100	1,200	1,200	1,000	1,300
Sugarcane	4,000	3,500	3,200	3,500	3,300
Other food crops including fruits					
and vegetables	1,900	1,800	2,000	1,900	2,100
Other non-food crops including					
tobacco				300	200
Tomas	21,800	22,500	22 300	22,500	23,100
TOTAL	41,000	22,500	200	22,500	2,100

¹ J.H.E. Gartett, Bengal District Gazetteers: Nadia, Calcutta, 1910, p. 68.
2 J.M. Pringle & A.H. Kemm, Final Report on the Survey and Settlement Operations in the District of Nadia, 1918-1926, Calcutta, 1928, p. 16.

Irrigation Schemes

Source: Principal Agricultural Officer, Nadia.
 Source: Statistical Officer, Socio-Economic & Evaluation Branch, Department of Agriculture & Community Development, Government of West Bengal.

2. AREA IRRIGATED THROUGH DIFFERENT AGENCIES IN NADIA DISTRICT (IN ACRES)¹

Year	Private Canals	Tanks	Wells	Other sources	Total
1960-61	14,000	1,000		4,300	19,300
1961-62	14,100	1,000		4,300	19,400
1962-63	14,000	900		4,100	19,000
1963-64	14,000	1.100	-	4,100	19,200
1964-65	14,900	1,300		4,300	20,500

Tank improvement work It has already been stated that the scope of tank irrigation in the district is limited as the land is sandy having little capacity for holding water. This is why tank improvement work has never been a special feature so far as irrigation of the district is concerned. During the third Five Year Plan period, however, a number of schemes were taken up by the Tanks Improvement Department and the Department of Fisheries of the State Government for increasing agricultural production and developing pisciculture in the district. Tanks are departmentally selected and their owners are given loans under certain conditions for their development. These schemes are usually implemented through the Development Blocks of the district. The following statement gives the numbers of tanks improved and the cost involved in each case during the Third Five Year Plan

Year	No. of tanks improved	Cost involved Rs.
1963-64	सन्यमेव जयन्25	1,14,036.74
1964-65	11	46,036,78
1965-66	12	42,703.81
1966-67	3	8,684.14
1967-68	3	17,466,42

During the period from 1965-66 to 1966-67, 14 tanks were improved under the supervision of different Anchal Panchayats of the district.

Source of irrigation

As the rainfall is uncertain and the farmers of the district have to depend to a great extent on the mercy of nature, attempts are being made to increase the area under assured irrigation through various irrigation projects. Statistical information regarding irrigation by different methods is given in the table below.³

Source: Tanks Improvement Officer, Nadia.
 Source: Principal Agricultural Officer, Nadia.

AREA UNDER DIFFERENT TYPES OF IRRIGATION IN NADIA DISTRICT (IN HECTARES): 1964-69

Sources of Irrigation	1964-65	1965-66	1966-67	1967-68	1968-69
Tanks Wells	320 Nil	300 Nil	300 Nil	300 Nil	300 Nil
Deep Tube-Wells	1,060	2,984	5,409	5,527 Nil	8,793 Nil
Government Canals Other sources	Nil 4,720	Nil 5,400	Nil 4,275	4,173	7,907

Deep tube-wells

Deep tube-wells may be a useful source of irrigation in areas not served by any river valley project and it has been possible to provide perennial irrigation to an extensive area by installing such tube-wells. As compared to the big river valley project, the deep tube-well scheme is likely to involve a lower cost in relation to the command area. In 1965-66, 449 deep tube-wells were sanctioned for the district of which 231 deep tube-wells were energized in 1965-66. The number of energized tube-wells for the years 1966-67 and 1967-68 were 328 and 359 respectively. In 1968-69, there were altogether 401 energized tube-wells in the district. The following table gives an idea of the energized and completed tube-wells in the district for the period from 1965-66 to 1968-69 and the area likely to be benefited by such tube-wells.¹

Year	No. of energized tube-wells	No. of completed tube-wells	Area be	
		Tracks and	Kharif	Rabi
1965-66	231	96	1,289,89	1,860,18
1966-67	328	116	2,210,30	2,560.05
1967-68	359	171	4,457,81	5,070,21
1968-69	401	297	5,070,21	9,665,97

The full command area can be irrigated only when these deep tube-wells are complete in all respects. It may be added that one tube-well is expected to irrigate about 200 acres when fully completed. It has been found from the data available after sinking of exploratory tube-wells that this district is very suitable for such irrigation by tapping underground water.

Lift pumps have been used to draw water from the rivers for irrigation purposes during the Third Five Year Plan. The following statement gives the number of pumps distributed and the expenditure incurred during the period from 1964-65 to 1968-69.²

Lift irrigation by pumping plant

^{1 &}amp; 2 Source: Principal Agricultural Officer, Nadia.

Year	No. of pumps distributed	Expenditure incurred Rs.
1964-65	3	10,759.75
1965-66	66	1,98,462,30
1966-67	214	7,47,431.45
1967-68	113	3,47,646.00
1968-69	625	21,87,883.50

The percentage of gross irrigated area to total area under crops was 1.25 in 1963-64, while the same was 8.20 in 1968. The following table shows the total area under irrigation in the district for the year 1963-64 to 1968-69 and also shows the gradual increase in the percentage of irrigated area through these years.¹

THE AREA UNDER IRRIGATION IN NADIA DISTRICT (IN HECTARES): 1963-69

Year	Net area irrigated in the district	Percentage of net area irrigated to the net area sown	Area irrigated more than once in the same year	Gross irrigated area	Percentage of gross irrigated area to total area under crops
1963-64	2,296	0,82	1,686	5,890	1.25
1964-65	6,100	2.15	5,328	12,500	2.65
1965-66	8,684	3,12	7,884	17,897	4.66
1966-67	9,984	4.11	8,856	20,896	5,87
1967-68.	11,000	4.03	9,005	22,545	5.84
1968-69	17,000	7.00	15,207	35,350	8.20

The following table, again, gives an idea of the irrigated area under *rabi* and *kharif* crops in the district for the period from 1964-65 to 1968-69.²

Year	Under rabi crop (in hectares)	Under kharif crop (in hectares)	Total area (in hectares)
1964-65	6,100	6,400	12,500
1965-66	8,684	9,211	17,895
1966-67	9,984	10,861	20,845
1967-68	11,000	11,545	22,545
1968-69	17,000	18,350	35,350

AGRICULTURE INCLUDING HORTICULTURE

Soil and Crops The soil varies but little all over the district. Excepting portions under Karimpur police station of the Sadar subdivision and the tract commonly known as *Kalāntar*, the soil of the district is light sandy loam. The tract, known as *Kalāntar*, is a low lying

^{1 &}amp; 2 Source: Principal Agricultural Officer, Nadia.

area which starting from Mursidabad district stretches into Nadia between the Bhagirathi and the Jalangi and runs further in the south-easterly direction covering an area about 15 miles long and 8 miles wide. The tract under suitable weather conditions can grow good *aman* rice, but often either water-logging makes it unsuitable for *rabi* cultivation or cultivation is threatened by inadequate rainfall.

The natural soil regions found in the district, formed as a result of the physical features, watershed and the climate may be broadly classified into three soil associations, namely, Ganga riverine lands, Ganga flat lands and Ganga low lands. The association of Ganga riverine lands has again two phases which include the inundated phase covering Ganga riverine char lands and the highland phase bordering Ganga riverine ridges.1 Ganga low lands are formed of soils on recent alluvial fans, flood plains or other secondary deposits having undeveloped profiles and underlain by unconsolidated material. Their profiles show no accumulation of clay or lime in the sub-soil resulting from weathering and the downward movement of water from surface horizon. Deposition of alluvium having different texture in different layers in an unsystematic manner is evident on observation. The soils of this association occur in the police stations of Karimpur, Kaliganj, Tehatta, Nakasipara, Krishnanagar, Chapra, Hanskhali, Shantipur, Ranaghat, Chakdaha and Haringhata. Ganga flat lands, on the other hand, are formed of young alluvial fans, old flood plains or other secondary deposits having somewhat developed profiles underlain by unconsolidated material. These profiles show slight compaction and slight accumulation of clay in the sub-soils as a result of leaching from the surface horizon. The soils of this association can be found in the police stations of Karimpur, Kaligani, Nakasipara, Chapra, Hanskhali and Ranaghat. Ganga low lands, again, comprise soils on lower plains, depressions and left river beds having a good accumulation of clay in the surface soil and underlain by unconsolidated material or more often riverine profile. These are clay-pan soils in which pans are relatively near the surface and relatively impervious to the downward movement of water. Water moves through big cracks in the soil. This is underlain by a horizon, at places of lime or lime-iron, which do not soften or disintegrate in water. Soil of this association occurs in the police stations

Government of West Bengal, Directorate of Agriculture, A Report on the Soil Work in West Bengal, Calcutta, 1960, p. 4.

of Karimpur, Tehatta, Chapra, Hanskhali, Ranaghat, Chakdaha and Haringhata.

The soils which form the Ganga riverine lands contain an average amount of potash and phosphate, but are poor in organic matter and nitrogen. In spite of these soils being sandy and having an open texture, the sub-soil has a good moisture retentive capacity. The occasional sand layers stop the loss of moisture from the sub-soil owing to interception of capillary rise in sand and maintain a good moisture status. This helps the deeprooted crops like sugarcane to stand the summer drought very well. The calcareous well-aerated silty soil having a good subsoil moisture affords a good medium for growing sugarcane. The excellent permeability and capacity of holding water of the sub-soil layers coupled with the climatic benefit of the summer rains make the area comprising Ganga flat lands ideally suitable for growing deep-rooted crops like sugarcane, jute, etc. This area grows aus paddy and jute in kharif season and pulses or barley in rabi season. A period of fallowing to recoup the fertility of the soil by weathering down of the soil material to produce plant nutrients is, as a rule, practised widely. Since these soils are subjected to heavy leaching during rains, loss of nutrients owing to surface run-off and vertical movements of nutrients in the profile, it becomes essential to allow the fields to consolidate and recoup by the rotation of crops.

The association of soils comprising Ganga low lands occur in places where depressions have been created by the swinging movement of different rivers. The abandoned river courses and areas thus enclosed by high river banks receive the washing from the surrounding flat or riverine lands. During rains, these appear as big sheets of shallow water, where, in deeper places, mostly reeds and other weeds grow and cultivation is restricted to the peripheries. Shallower ones are put to aman or deep water paddy (boro). During winter, this area gets dried up, when pulses are grown in many places. During summer, when the sub-soil dries up, shrinkage of the soil gives rise to large and long cracks. This behaviour of the soil makes rabi crops suffer as a result of tearing of their roots. Small patches of high salt concentration occur here and there, which give the standing rabi crops a patchy appearance. The inundated phase of Ganga riverine lands consists of Ganga char lands adjacent to the banks of the Ganga, Jalangi, Mathabhanga, Churni and Ichhamati representing a soil which remains invariably submerged below water during the

rainy season. The soil is generally of a sandy nature, typical of the sand bed of the river. The soils are shallow and are of calcareous nature. No progress of soil-forming processes is visible in these areas. Wherever thin layers of silt have been deposited, cultivation of early aus, water-melon and patal is widely practised. Yearly deposition of silt keeps up fertility. The highland phase covering Ganga ridges have soils which are brown in colour, but its sub-soil being usually sandy, the region generally suffers from lack of irrigation.

In 1960-61, about 47 per cent of the cropped area of the district was under paddy while 6 per cent of it was covered by jute and 10 per cent by gram. Other food grains occupied about 22 per cent of the cropped area. Besides, some area was also under linseed, mustard and sugarcane. The distribution of the general crops in the district in 1960-61 is given below.

DISTRIBUTION OF VARIOUS CROPS IN NADIA DISTRCT (IN ACRES): 1960-611

Total Rice	5,44,373
Bhadoi or aus	2,81,206
A man	2,61,190
Boro	1,977
Wheat	10,131
Barley	10,131
Jower	247
Maize	247
Gram सन्यमन जयन	1,24,788
Other food grains	2,50,070
Sugarcane	17,792
Other crops grown for sugar	494
Rape and mustard	22,734
Til	741
Linseed	37,313
Other oil seeds	494
Condiments and spices	1,236
Jute	73,884
Other fibres	45,962
Tobacco	247
Fodder crops	2,965
Fruits and vegetables	8,896
Miscellaneous	741

B. Ray, op. cit, p. 87.

CROPS

Throughout the district cereals, cash crops, pulses and oil seeds are grown in all areas which are under cultivation. Among cereals, mention may be made of aman rice, aus rice, wheat, barley, maize and to some extent boro rice. The cash crops include vegetables, jute, potato, chillis and sugarcane. Gram, masur, māshkalāi, khesāri, arhar, mug, mustard are the common pulses and oilseeds. Orchards, which are often found in the district, mainly consist of mango groves and bamboo growing areas. There are, again, certain areas where natural environment changes with the change of seasons. In Tehatta P.S., for instance, the landscape is one of a vast plain dotted with $kh\bar{a}ls$ and bils. Villages surrounded by groves stand widely separated from each other on comparatively higher lands. During rainy season, the western side of the Jalangi gives an appearance of vast stretches of paddy fields where villages look like small islands. eastern and northern parts of this police station look like a huge water sheet, having paddy tops peeping out of them from places having higher level of land. The hamlets are widely separated and have a canopy of mango and bamboo groves. During winter, the western half gets covered by rabi cereals and the landscape is one of a mixture of purple, green and yellow colour of the rabi pulses. The eastern half, on the other hand. is harvested for late paddy. In summer, the land, looking like an unending chess-board of small bunds, is bare and affords good pasture.

Rice is the main crop of the district and occupies about 73.11 per cent of the net cropped area. The following table would give an idea of the volume of production of the principal crop in relation to other important food and non-food crops of the district between 1964-65 and 1968-69.

AREA UNDER MAJOR AND SUBSIDIARY CROPS (IN THOUSAND ACRES) IN NADIA DISTRICT: 1964-691

Name of crop	1964-65	1965-66	1966-67	1967-68	1968-69
Rice	484,0	515.7	506.2	514.3	576.5
Wheat	11,4	10.1	10.1	13.7	37.3
Barley	3,8	4.8	8.0	7.3	8.2
Maize	0.4	0.5	0.4	0.2	0.2
Kharif pulses	37,0	42,0	26.5	27.3	30.2
Rabi pulses	189.2	172.2	147.0	134.6	73.8
Gram & Turmeric	166,0	174,2	226.3	190.0	177.1
Sugarcane	16.3	20,4	16.0	12.6	14.2
Potato	1.2	1.6	1.4	1.0	2.1

¹ Source: Principal Agricultural Officer, Nadia.

AREA	UNDER MAJOR AND	SUBSIDIARY CROPS (IN THOUSAND
	ACRES) IN NADIA	DISTRICT: 1964-69 (Contd.)

Name of crop	1964-65	1965-66	1966-67	1 967-6 8	1968-69
Ground-nut	0.02	0.025	0.026	not available	not available
Rape & Mustard	44.2	45.7	37.8	200.0 23.5	36.0 5.3
Linseed Tobacco	40.2 0,4	38.2 0.4	38.8 0.4	0,5	0.4
Jute	163.6	135.5	147.3	182.4	86.2

The district has a considerable area under pulses and rabi cereals. A good quality pulse commonly known as sonā mug valued for its smell and colour is grown here.

The following picture of thanawise cropping pattern of the district is available from a survey report.

Cropping pattern

Subdivision Krishnanagar

Police Station

Karimpur

The area grows both aman and aus paddy. Aman grows in the Ganga low lands and aus in the Ganga riverine lands. Aman-fallow-aman and auspulses-aus, jute-pulses-jute are the more common rotations. Arhar-wheat-arhar rotation is also followed.

Tehatta

Aus-sugarcane-ratoon-aus, aus-masuraus and aus-gram-aus are the more common rotations. Aus-jute, sugarcane and arhar alternate in the same lot. Aus and arhar are often broadcast together.

Nakasipara

The common rotation is aus-gram-aus or aus-masur-aus with two years' fallow after four years of cropping to recoup soil fertility. Aman-fallow-aman is the more common rotation but aman-khesari-aman is also followed.

Government of West Bengal, Directorate of Agriculture, A Report on the Soil Work in West Bengal, Vol. II, 1960, pp. 13-33.

Chapra

Jute-pulses-jute, jute-fallow-jute, amanfallow-aman, aus-fallow-aus, aus-gramaus are the more common rotations.

Kaliganj

Aus-sugarcane-ratoon-aus, aus-masur-aus and aus-gram-aus are the more common rotations. Aus-jute-sugarcane and arhar alternate in the same plot. Aus and arhar are often broadcast together.

Krishnanagar

Aus-vegetable or gram or masur-aus is the most common rotation. Aus and arhar are sown together. Aman lands are allowed to remain fallow in rabi season.

Navadwip

Aus-pulses-aus and aman-fallow-aman are usually practised. Pachan or fallowing of aus lands for recouping soil fertility is widely practised. Vegetable is grown in aus lands.

Krishnagani

Aus is the principal paddy crop. Ausgram or masur-aus and aus-vegetablesaus are the more common rotations. Aus or jute is grown alternatively. Pachan or allowing the land to remain fallow after every three or four successive crops of aus is the common practice. Aman-fallow-aman is the rotation followed. Aus and arhar, mustard, barley and gram are broadcast together. Boro is grown in the bed of bils. Growing of chillis in aus land is very common.

Subdivision Ranaghat

Police Station

Shantipur

Aus is the predominating paddy grown here. Aus-gram or masur-aus is a common rotation. Aus-arhar, barley-mustard and gram-mustard are broadcast together. The practice of pachan

is a known phenomenon. Aus-vegetable-aus and jute-vegetable-jute rotations are also followed.

Hanskhali

Aman and aus areas in this police station are almost equal. Aus-vegetable-aus, and aus-pulses-aus are the more common rotations. Gram and mustard are broadcast together. Aus is also broadcast and pachan is practised.

Ranaghat

Aus-gram or masur or bagoon-aus is a common rotation. Jute-vegetablejute is another rotation; and amanfallow-anran is the general practice. A sizable area is under coconut.

Chakdaha

The area grows more aman than aus unlike the other police stations of the district. Aman-fallow-aman and ausmasur-aman, Aus-vegetable or chillisaman are the more common rotations. Masur-mustard-barley, gram-mustardbarley and aus-arhar are broadcast together. Tobacco is grown in more fertile patches, specially near homestead, where it can be manured heavily and irrigated from easily accessible water source.

Haringhata

Aman-fallow-aman, aus-gram or masur or vegetable-aus is the usual rotation. Vegetables, specially pumpkin, brinjals and chillis are grown in aus plots. Tobacco is grown near the homestead lands where facilities for irrigation exist.

Unlike some other districts of this State where the people Major and generally depend upon aman rice, that is, the winter variety, subsidiary crops Nadia depends more upon the autumn that is, aus rice than upon the former. In the early fifties, the autumn crop occupied 58.4 per cent of the normal net cropped area while winter crop

covered 36.1 per cent of the normal net cropped area. Rabi crops which include gram and other rabi cereals and pulses occupied 45.5 per cent. The total of these percentages exceeds 100 owing to the fact that as much as three-fourths of the total cropped area was twice cropped.

The crops and their seasons

The crops in the district are classified according to their respective harvesting seasons into three broad categories, namely, bhadoi or aus (the autumn crop), aghrani or aman (the winter crop) and rabi (the late winter crop). Aus or autumn rice is by far the most important crop which is grown in the district. It requires less water than the other varieties of rice commonly found in the district and unlike the long stemmed varieties it does not possess the power of accommodating its growth to the depth of water surrounding it. In fact, it can hardly be grown on land which is liable to be flooded during the rains to a depth of more than three or three-and a-half inches. Cultivation of land for this variety starts as soon as the early showers permit ploughing and the seed is sown broadcast in April or May. As soon as the young plants grow to a height of 5 or 6 inches, the field is harrowed for the purpose of thinning out the crop, and also to prepare the way for first weeding. During the whole of May and the first two weeks of June it is essential that the field should be kept clear of weeds. amount of labour involved in this operation makes the aus a more troublesome crop even than the transplanted aman. Under favourable conditions, the crop becomes ready for reaping in August or early September. The quality of rice vielded is coarse, difficult to digest and is usually consumed by the poorer section of the people. The outturn is also less in weight and thus fetches a lower price. The straw, however, provides the cattle with good fodder at a time of the year when both food grain and fodder are scarce. The other advantage of this crop is that being off the ground early, it provides for the preparation of the land for rabi or winter crop. In 1960, the normal outturn of aus rice in Nadia was 8 maunds per acre which compares unfavourably with the yields in other districts.

Aman or winter rice with all its varieties offer all the finest qualities of rice. The preparation of the land for this crop begins in the early part of the year. The seed is sown very thick in a nursery in April or May and as soon as the seedlings

¹ B. Ray, op. cit., p. xxx.

make their appearance, another field is prepared for their transplantation. For this purpose, the embankments round the field are repaired so that it may retain all the water when it rains. The field is then ploughed several times until the surface is reduced to thick mud. The seedlings are then taken out of the nursery and transplanted into rows about nine inches apart, where they are left to mature, one or two weedings being done in a subsequent operation sometime in the second fortnight of August. The crop is harvested in November or December. The most critical period for this crop is when it begins to blossom in the later part of October. If there is no sufficient moisture at this time, no grain will form in the year. In Nadia, aman rice is nearly the sole crop in the Kalāntar.

The cultivation of jute has been increasing during the past thirty years and at present this crop occupies a fair share of the normal net cropped area. It is generally grown on lands which are suitable for aus crop. The preparation of the land for this crop begins as soon as there is sufficient rainfall to moisten it. It is ploughed twice or thrice in the initial stage and then allowed to rest for a time while the farmer manures it with cow-dung and fertilizers. In May, the land is ploughed again and the surface is made as fine as possible. The seed is then sown. When the seedlings reach a height of five or six inches, a harrow is passed over the field with a view to thinning out the plants where they are too thick, and also to help absorption of moisture by breaking up the surface of the ground. The first weeding takes place when the plants are about a foot high and every effort is made at this stage to eliminate the weeds. If the work is done well, no further weeding is required. The crop matures in late August or early September, and it is then cut and tied up in bundles about 15 inches in diameter. They are then steeped in the nearest stagnant water for about a fortnight until the stalks have become sufficiently decomposed to admit of the extraction of the fibre from them. In recent years, higher yields have been obtained by adopting improved practices of cultivation and there has been a definite improvement in quality also. Formerly, the quality of the jute grown in Nadia was inferior to that grown in the districts north of the Ganga, but use of better seeds has helped to improve the quality to a certain extent in recent years. The following table gives the production figures for some of the more important crops of the district for the year 1960.

Jute cultivation

PRODUCTION OF AMAN AND AUS RICE, WHEAT AND JUTE IN NADIA DISTRICT: 19601

	Name of Crop (in acres)				
Name of Police Station	Aman	Aus	Wheat	Jute	
Karimpur	20,580.35	41,093.63	3,855.64	3,265.84	
Tehatta	32,838.03	39,383.89	1,667.55	2,348.95	
Kālīganj	19,216.25	20,963.78	565.93	982,19	
Nākāsipārā	13,604.08	23,663,91	613,09	722.33	
Chāprā	24,508.08	27,749.57	192,74	2,741.96	
Krishnanagar	14,962,35	25,889,21	27,39	745.64	
Navadwip	63.30	10,594,09	234.01	664.33	
Krishnaganj	5,815.10	12,648.11	130.49	1,065.54	
Shāntipur	6,171.12	10,311,21	132.91	1,605,94	
Hānskhāli	17,314.59	17,638.49	18,07	1,326.82	
Rānāghāt	25,473.64	29,770,17	265.47	1,659.46	
Chākdaha	20,430.47	12,383.47	86,23	3,066.36	
Haringhātā	14,009.91	7,986.45	0.18	1,387.42	

PROGRESS OF SCIENTIFIC **AGRICULTURE**

Agricultural implements

Use of tractors

With the launching of the First Five Year Plan, efforts were made by the Agricultural Department of the district to acquaint the agriculturists with the practices of scientific agriculture. Use of improved implements, improved seeds and adoption of plant protection measures are some of the new practices which were introduced.

Although mostly indigenous implements are still in use, the cultivators of the district have, during the various Plan periods. gradually shown keen interest in the use of some modern implements which include mould-board ploughs, seed-drills, wheelhoes and paddy-weeders. The farmers are also to a great extent conversant with the use of plant protection equipments such as dusters and sprayers. In the early days of the Five Year Plan. these were manufactured and supplied by firms in Calcutta which did not have any distributing agencies in the district. During the Third Plan period, arrangements were made for repair of the improved implements locally by supplying spare parts from the Block Development Offices where a Fitter Mechanic was posted for attending all repair works on receipt of requisition from cultivators.

During the early sixties, thirteen tractors were placed at the disposal of the local Agriculture Department for ploughing lands of the farmers on payment of usual charges. Besides, fifteen tractors were also maintained by private parties and were made

¹ Government of West Bengal, Directorate of Agriculture - A Report on the Soil Work in West Bengal, Calcutta, 1960. pp. 11-33.

available for use of the cultivators as and when required. The tractor was extensively employed for cultivation in the Sadar subdivision and has since become very popular. The following statement shows the distribution of improved agricultural implements in the district for the period from 1964-65 to 1968-69.

DISTRIBUTION OF IMPROVED AGRICULTURAL IMPLEMENTS IN NADIA DISTRICT: 1964-691

Name of Implements	1964-65	1965-66	1966-67	1967-68	1968-69
Seed-drill	8	144	455	528	426
Wheel-hoe	25	179	417	463	424
Paddy-weeder	7	82	53	49	55
Mould-board plough	394	128	87	40	144
Seed-dresser	-60		23-		
Done	51	265	212	118	291

The Agriculture Department of the district paid serious attention to the work of procurement and distribution of improved seeds during the various Plan periods, specially, during the Third Plan when the foundation seeds of the Seed Multiplication Farms of the district became very popular among the farmers. The different types of seeds usually produced are *aus* (autumn paddy), *aman* (winter paddy), jute, wheat, pulses and oilseeds. The following statement gives an idea of seed distribution work in the district from 1964-65 to 1967-68.

QUANTITY OF SEEDS DISTRIBUTED IN NADIA DISTRICT: 1964-682

	1964-65		196	1965-66		1966-67		7-68
Kind of improved seed	Quan- tity (Quin- tals)	Area (hect- ares)	Quan- tity (Quin- tals)	Area (hect- ares)	Quan- tity (Quin- tals)	Area (hect- ares)	Quan- tity (Quin- tals)	Area (hect- asre)
Paddy	662	1,324	1,128	2,256	1,543	3,086	1,648	3,269
Wheat	17	18	631	630	715	714	827	826
Pulses	81	265	639	2,044	407	1,302	66	211
Sugarcane	4,200	24	44,000	252	2,200	13	9,600	55
Potato	750	60	410	32	334	26	251	20
Mustard	29	383	30	396	83	1,095	131	1,729
Jute	31	409	39	514	117	1,544	873	1,108

^{1 &}amp; 2 Source: Principal Agricultural Officer, Nadia.

Seeds & manures

There was a time when the poor cultivators had to depend on rich farmers for the supply of quality seeds as they were unable to keep a part of their seeds earmarked for use in the next season. This situation has since changed and improved varieties of seeds are now being supplied to the cultivators from the Thana Seed Farms and seed stores and local cooperative societies are also working as agencies for storing and distributing them.

In order to increase the quantity of good quality organic manure in the rural areas, arrangements were made during the Third Plan period for training farm leaders in improved and scientific methods of compost production. Attention has also been paid in recent years to increasing village compost production under a scheme for augmenting local manurial resources. This scheme envisages construction of an adequate number of compost pits for every village. The following table gives an idea of the progress under the scheme for the five-year period from 1964-65 to 1968-69.

Year	No. of farm leaders trained	No. of pucca pits constructed	No. of cattle sheds constructed	Quantity of compost produced (in tonnes)
1964-65	230	275	233	15,772
1965-66	1,307	432	298	26,714
1966-67	1,140	592	477	45,834
1967-68	800	398	310	53,685
1968-69	1,007	302	221	45,519

Green manuring is one of the cheapest methods of improving soil fertility. In order to extend the acreage under green manuring, dhainchā seeds are being raised in all Government farms for subsequent distribution. Cultivators have also been encouraged to grow dhainchā seeds for their own use. The following statement shows the quantity of dhainchā seeds distributed and area greenmanured for the period from 1964-65 to 1968-69.

Year	Quantity of dhaincha seeds distributed (in metric tons)	Area green-manured (in acres)		
1964-65	18.1	1,601		
1965-66	40,6	3,161		
1966-67	23.8	1,677		
1967-68	12.4	1,193		
1968-69	4.6	915		

Manures

With the gradual depletion of soil fertility by intensive cultivation, the cultivators have become conscious of replenishing the plant food by use of organic and inorganic manure, dhainchā, kalāi and compost manure. Various types of inorganic fertilizers, such as, Ammonium Sulphate, Super Phosphate, Bone meal are also being used, Fertilizer mixtures for paddy and jute, recommended by the Agriculture Department, have become popular to a great extent.

Fertilizers

Fertilizer plays an important role in increasing agricultural production and the cultivators have by now been quite alive to the utility of fertilizers. In order to ensure adequate supply of fertilizers to the farmers at the time of need, more and more depots were established in remote villages, specially during the Third Five Year Plan period. Since the cultivators are not in a position to meet the financial liabilities for the purchase of fertilizers, credit arrangements have also been made. Fertilizer loan is sanctioned and disbursed by the Block Development Officer. Besides, there are the cooperative societies which also advance loans to the deserving farmers. A part of the fertilizer loan is paid in cash, while about 75 per cent is given in the form of a permit for fertilizer. In 1966-67, there were 185 fertilizer depotholders in the district. This number increased to 229 in 1967-68, while it was 296 for the year 1968-69. The total quantity of fertilizers handled by the depot-holders in 1966-67 was 7.650 metric tons, while the same for 1967-68 and 1968-69 was 1.018 MT and 814 MT respectively. The total quantity of fertilizers actually distributed during 1966-67, 1967-68 and 1968-69 was 968 MT, 1,018 MT and 814 MT respectively. The following table shows the consumption of fertilizers in the district for the period from 1966-67 to 1968-69.

CONSUMPTION (IN TONNES) OF FERTILIZERS IN NADIA DISTRICT: 1966-691

Name of fertilizer	1966-67	1967-68	1968-69
Ammonium Sulphate	2,369	2,569	2,328
Calcium Ammonium Nitrate	20	89	95
Urea	1,849	1,847	2,068
Ammonium Sulphate Nitrate	20	29	35
Di-Ammonium Phosphate	40	126	138
Ammonium Phosphate			98
Super Phosphate	1,458	1,492	1,530
Ammonium Chloride	, ·	´	60
Potassium Chloride	19	146	250,5
Fertilizer Mixture	1,588	1,676	1,894

¹ Source: Principal Agricultural Officer, Nadia.

Agricultural diseases & pests

While outbreak of plant diseases on a large scale is not a common phenomenon, the incidence of pest is almost a regular feature. Every year pests appear on crops like jute and aus paddy on a large scale and also on sugarcane to some extent. The cultivators appear to be well conversant with control measures and they apply these chemicals on an extensive scale whenever there is any outbreak. To encourage the use of various insecticides and fungicides among the cultivators, these are sold to them at 50 per cent subsidized price. In recent years, the demand for insecticides has become so great that many private firms have come forward with various brands of insecticides and fungicides to meet the needs of the farmers. The following statement shows the progress made in the field of plant protection work in Nadia district for the years 1965-66 and 1966-67.

		1965-66		1966-67			
Name of plant protection materials	Quantity distributed (in quintals)	Area treated (in hectares)	Quantity treated (in quintals)	Quantity distributed (in quintals)	Area treated (in hectares)	Quantity treated (in quintals)	
Insecticides Fungicides	3,445 14	13,760 40	175	3,260 20	13,040 400	154	

Court of

The plant protection materials are also in use in the district. In 1964-65, the number of hand sprayer distributed was 365, while the same for hand duster was 18. The following table gives an idea of the distribution of sprayers and dusters in the district during the period from 1964-65 to 1967-68.

Name of materials	1964-65	1965-66	1966-67	1967-68
Hand sprayer	365	685	384	218
Hand duster	36	22	48	8

Insect pest and diseases Rice grasshopper, rice swarming caterpillar, rice hispa, rice bug, rice stem borer and rice case worm are the usual pests which attack and destroy paddy. Jute semilooper, jute hairy caterpillar and jute apion are the pests which harm the fibre crop, while sugarcane is affected by the attack of stem borer and leaf hopper. Cut worm, leaf folder, stem borer and lady bird beetles are the enemies of vegetables. While leaf spot is the indication of disease in paddy, stem rot is the disease in the case of jute. In case of vegetables, viruses and early blight are some of the indications of diseases

Farms serve as effective demonstration centres of progressive agriculture. Since 1962-63, a vigorous drive was launched to improve the working of the Block Seed Farms in the district. In 1965-66, there were seven Block Seed Farms in the district where good results were obtained by adopting various measures. The following table will show the total expenditure including the pay of staff and the total value of produce of these Block Seed Farms for the years from 1965-66 to 1967-68.

Name of the	1965-66		196	6-67	1967-68	
Block Seed Farm	Expen-		Expen-		Expen-	
with area	diture	Receipt	diture	Receipt	diture	Receipt
(in acres)	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Nakasipara (22,61 acres)	20,577.31	28,812.97	27,858. <i>5</i> 0	51,411.00	34,496.97	51,622.66
Kaliganj (27,30 acres)	20,664.46	21,053,77	24,778.57	47,642.00	28,312.54	54,365.36
Tehatta (24,30 acres)	20,297.79	22,496.50	25,000.03	33,237.00	35,696.40	37,289.22
Karimpur (25.46 acres)	18,070.81	19,792.03	24,734.53	33,547.00	30,922.85	38,695.26
Chakdaha (26.03 acres)	25,717.73	49,227.87	29,524.15	58,284.00	37,094.29	17,993.37
Hanskhali (26,06 acres)	23,144.33	28,660.55	29,166.30	40,435.00	28,823.43	58,931.51
Krishnaganj (25.51 acres)	15,912.67	16,692.85	20,409.14	22,725.00	21,752.45	19,584.86

Formerly, the farms were running at a loss but it will be seen from the above table that there has been some improvement in recent years. The average yield per acre of paddy in some of these farms went up to 35 maunds (13.063 guintals), that of jute as fibre to over 30 maunds (11.197 quintals) and that of wheat to 20 maunds (7.465 quintals). Experiments were also made with certain new varieties of paddy and the results obtained were satisfactory. With the availability of better irrigation facilities, various types of multiple cropping patterns were also introduced, such as, jute followed by aus followed by wheat, aus followed by aus followed by wheat, etc. In one of such triple crops programmes in the Nakasipara Farm, 30 maunds (11.197 quintals) of paddy were obtained from the first aus crop of dular variety, 37 maunds (13.809 quintals) of aus paddy were obtained from the second crop of Ch. 45 and about 20 maunds (7.465 quintals) of wheat per acre was obtained from the third crop. Thus, in all, about 87 maunds (32.471 quintals) of paddy and wheat could be obtained from one acre of land.

Farms

Jute Seed Multiplication Farm, Krishnanagar

Block Seed Stores

The Horticultural Research Station, Krishnanagar The Jute Seed Multiplication Farm with an area of 250 acres was established in Krishnanagar in 1951 for multiplication of jute seeds to cope with the growing demand of the agriculturists. It was possible to put 60 acres under jute for seed multiplication in the *kharif* season of the same year, while nearly 162 acres were brought under cultivation in the *kharif* season of 1953. The main work of the Farm was the production of jute seeds of high-yielding varieties, but advantage of crop rotation was also taken soon for production of seeds of recommended varieties of food crops, such as, paddy, wheat, pulses, oil-seeds, etc.

In order to ensure timely supply to the cultivators of the district, Block Seed Stores were constructed in different Development Blocks during the Third Plan period. Where construction was not possible, accommodation was hired for storing seeds. In 1967-68, there were altogether 39 Block Seed Stores in the 15 Blocks of the district with a total capacity of about 500 tonnes.

The Horticultural Research Station at Krishnanagar, which is the only Horticultural Research Station of its kind in this State. was established in 1934 for carrying out research work on fruit growing in the plains of Bengal. Krishnanagar was specially selected as a site of the station as this place was well within the fruit growing belt of Bengal and was already well-known for the quality of mango, lichi and other fruits produced in this zone. Initially, the work was taken up on 16 acres of Khāsmahal land adjoining the Government Demonstration Farm and was expanded in 1946 by the inclusion of the 40-acre Demonstration Farm. It was then planned to make this a Central Horticultural Research and Fruit Technological Station. The main work of the station consists of breeding and selection work to evolve better varieties of fruits and vegetables with high yield, good quality, early and late maturity, resistance to insect pests and diseases, etc. as well as cultural and manurial trials to determine the best cultural methods and manurial practices for different horticultural crops. Another very important object was the production of reliable and true to type planting materials of fruits. Lastly, the work also included advisory work regarding various aspects of fruit and vegetable culture in the State. The fruits under study and research were mango, lichi, citrus fruits, guava, jack-fruit, custardapple, banana, papaya and pine-apple, while vegetables included pumpkin, cucumber, lady's finger, cauliflower, tomato, brinjal, spinach, garden pea, etc. A large quantity of seeds of vegetables are produced and distributed to the growers through the Block Extension staff at a moderate price.

In 1961, the livestock population of the district consisted of 5,36,865 cattle, 45,675 buffaloes, 32,784 sheep, 2,67,236 goats, 2,700 pigs and 778 horses and ponies. Though the district is fairly uniform, the internal distribution of cattle is interesting. The fallow lands in the west of the district provide the greatest facilities for grazing, while cattle are not, as in other countries, concentrated on the best feeding grounds. In Nadia, the largest grazing areas carry the smallest number of cattle. Cattle are used not as a source of dairy product or meat but for the purpose of agriculture. The cows supply very little milk to the population. The buffaloes are also used for ploughing as well as for drawing carts. Many of them are employed on the heavy road traffic, which runs from Palashi to the east and is the main cross country arterial road of the district. The goats are kept by ordinary people of limited means. Pigs are generally reared by the people of the lower caste and are used mostly for food.

During the different Plan periods, attempts were made to improve the quality of livestock through cross-breeding and artificial insemination. To improve the quality of breeds through cross-breeding is considered difficult as it is very expensive to import bulls of a good stock in sufficient numbers while an odd bull here and there can hardly serve the purpose. In recent years, however, with the establishment of the Development Blocks under the Community Development Project, the Veterinary Assistant Surgeons posted at different Block Offices of the district are working for the implementation of a number of schemes initiated by the Dairy Development and Animal Husbandry wing of the Department of Animal Husbandry and Veterinary Services. The following statement gives an idea of the progress in artificial insemination in the district for the five-year period from 1963-64 to 1967-68.

PROGRESS OF ARTIFICIAL INSEMINATION IN NADIA DISTRICT: 1963.68

	1202-00				
Year		No.	of	cows	involved
1963-64				874	
1964-65				985	
1965-66				1,275	
1966-67				1,853	
1967-68				1,897	

ANJMAL HUSBANDRY

Livestock and measures to improve quality of breeds

Prior to Independence, the livestock improvement programme was limited to the upgrading of local breeds of cattle through stud bulls and the distribution of improved stock of poultry. There were two veterinary hospitals located at Krishnanagar and Ranaghat where general treatment and surgical operations were done. Two more hospitals, one at Navadwip and the other at Shantipur, were established during the Plan periods. During the First Five Year Plan period, two Artificial Insemination Centres were established, while six more Aid Centres were set up during the Second Plan. During the Third Plan period, three new Aid Centres were opened for the treatment of livestock.

Besides the 16 veterinary dispensaries attached to the 16 Development Blocks of the district, the total number of Aid Centres attached to the Blocks was 18 in 1967-68. There was also a mobile van equipped with medicines and surgical instruments for attending emergency cases in distant places. The veterinary dispensary in the Development Blocks are normally stocked with medicines and appliances for effective treatment and control of various cattle diseases. The following table shows the particulars of animal treated and castrated by the Veterinary Assistant Surgeons on tour in 1960.1

Year			No. treated for contagious diseases			
1960	2,455	14	5,364	10,900	46	5,516

Anthrax, Black Quarter, foot and mouth diseases are the usual infectious ailments of cattle, while Fowl cholera, Ranikhet disease and Fowl pox are the maladies affecting poultry. Apart from the services rendered at the various Aid Centres, veterinary aid is now extended to the village people in the interior villages through mobile vans sufficiently equipped with modern appliances and medicines. The following statement gives the particulars of outbreak of cattle diseases attended by the veterinary staff during the period from 1963-64 to 1967-68.²

Source: Department of Animal Husbandry & Veterinary services, Government of West Bengal.

² Source: District Veterinary Officer, Nadia.

Name of disease	1963-64	1964-65	1965-66	1966-67	1967-68
Anthrax	3		1	1	1
Haemorrhagic Septicemia	8	6	7	1	_
Black Quarter	3	5	3	5	5
Foot and Mouth disease	45	41	21	60	6
Rinderpest				10	8

Besides the treatment of cattle and birds, preventive measures are also taken to tackle the growth of low grade cattle. The statement below shows the progress of veterinary work of the district for the period from 1963-64 to 1967-68.

Nature of work	1963-64	1964-65	1965-66	1966-67	1967-68
No. of cattle and birds treated	27,117	20,512	25,920	40,341	61,293
No. of cows inseminated by artificial insemination	874	985	1,275	1,853	1,897
No. of cattle involved in preventive measures taken to tackle the growth of low grade cattle	95,192	80,675	85,890	91,491	27,920

The scheme for the establishment of a Central Livestock Research-cum-Breeding Station at Haringhata was sanctioned in 1945 with the twin aims of breeding quality livestock and of carrying out research in the breeding, feeding and management of livestock and dairying. The work of implementation of the scheme started late in 1945 and while this work was in progress, came the partition of Bengal. Active implementation of the scheme started again after a time lag in 1949 and by the middle of that year the cattle, dairy and poultry sections started functioning.

The cattle section was started with 102 Haryana cows and 8 buffaloes purchased from East Punjab in June 1949 and a good number has been added by fresh purchases from time to time since then. In 1953, the herd consisted of some 430 milch cows and buffaloes, 10 bulls and about 1,000 young stock of all ages. The strength of this herd has since been increased.

While the primary aim of the cattle section is to raise breeding bulls which are required for improving the cattle of this State, the poultry section which keeps poultry of white Leghorn and Rhode Island Red breeds and ducks of *Khaki* Campbell breed

Dairy farming Haringhātā Dairy

¹ Source: District Veterinary Officer, Nadia.

aims at raising quality poultry which are to be sold to the public for breeding purposes. Besides, there is also the goat section where goats of local type are kept, the purpose being to improve them by selective breeding or crossing.

Apart from the milk produced by the herd of cattle belonging to the station, milk is purchased from the neighbouring villages and such milk, after pasteurization and standardization is disposed of with the milk produced at the Haringhata station. The centres from which milk is collected are known as milk collection-cumchilling stations. In Milk Colony units at Haringhata, there are arrangements to house cattle owners with their cattle for rearing in an ideal colony unit. At present, only buffaloes are kept in Milk Colony units. All the milk is purchased by Government for processing in Haringhata dairy.

The Haringhata dairy has two important functions, namely, to receive raw milk from different milk collection-cum-chilling stations for rechilling, a portion of which is diverted to the Central dairy at Belgachia, and to prepare pasteurized milk in bottles and cans. The dairy sells two grades of milk, namely, pure cows' and toned, the latter being processed buffalo milk. Milk is sold to the public from Government milk depots working in different parts of the city of Calcutta. The depots are mostly staffed by part-time women college students, two at each depot, working for nearly two hours daily. Some quantity of butter and ghee is also manufactured in Haringhata dairy. Distribution of processed milk in Kalyani is made only at Kalyani and Kanchrapara through four milk distribution depots. In rural areas of Nadia, there are also four milk collection-cum-chilling stations located at Phulia, Bethuadahari, Palashi and Tehatta. Milk from rural producers are procured through these milk chilling stations against payment of remunerative price.

Haringhata dairy in order to increase its raw milk reception capacity to 1,00,000 litres per day and to reach the target of its milk producing capacity to 50,000 litres a day. To achieve these objectives considerable progress in regard to procurement and installation of plant and machines has already been made. It is expected that the work of expansion and remodelling will be com-

pleted by 1971. For the purpose of procuring raw milk in larger quantity as well as to create marketing facilities for rural milk producers, the work of opening some more milk collection-cum-

Under the Fourth Plan, there is a proposal for remodelling the

Scheme for future development

chilling stations is also in progress. One such new milk chilling station has been established at Chakdaha.1

Sheep rearing

Sheep rearing has not developed much in the district since Independence and it remains the monopoly of a class of herders still following this profession in the same manner as did their ancestors in the past. In this district, therefore, sheep is reared as backyard farming. According to the 1966 Livestock Census, there were 43,809 sheep in the district. Considering the difficulties in the procurement of better stock of sheep, two sheep breeding farms have since been established in this State, one being located at Kalyani. During the latter part of the Third Five Year Plan, Kalyani had 1,000 ewes under the cash programme intended for introduction of sheep amongst the farming communities.

Simultaneously, a farm has also been established in recent years at Kalyani on 25 acres of grazing land where 1,000 ewes have been reared. Different breeds, mainly, mutton breeds, such as, Mandya Nellore and Sahawadi were selected for the supply of improved seed stock as well as mutton.

Along with dairies, poultry farms are also gradually expanding in the district. The State Government runs two poultry myltiplication farms, one at Haringhata, the other at Ranaghat, where mainly Leghorns and Rhode Island Reds are bred and their eggs sold. Besides, there are also many private poultry farms now in the district. During the various plan periods, the emphasis was laid on the improvement of the general standard of poultry and duck as well. A sum of Rs. 400/- is advanced as loan by the Block Development Officers to persons who need such financial assistance for running poultry. During the Third Plan Period, poultry birds of improved types were distributed by the Block Development Officers in their localities to deserving persons for the development of poultry farming.

Poultry farming

In recent years, the Animal Husbandary department of the State Government has initiated certain measures for developing pisciculture in the district. Several fish farms have been set up in Krishnanagar and Kalyani for demonstration purpose. The activities of Anjana Fish Farm located at Krishnanagar and Dherorda Fish Seed Farm at Kalyani may be mentioned in this connection while the Experimental Fish Farm at Kulia near Kalyani and Fresh Water Research Station, also located at Kalyani, are also

FISHERIES

¹ Source: Milk Commissioner, West Bengal,

important as research centres. The following table shows the various schemes implemented in the district during the First, Second and Third Plan periods.¹

	Name of Scheme	Loans paid Rs.	Subsidy paid Rs.
First Plan Period			
1949-50 & 1955-56	Unionwari tank fisheries development scheme	1,47,025.00	Nil
1950-51 to 1955-56	Dry district scheme	1,32,075.00	2,199.47
Second Plan Period			
1957-58 to 1960-61	Assisting needy fishermen scheme	24,400,00	1,270.65
1956-57 to 1960-61	Short term loan scheme	18,705,00	Nil
1957-58 to 1960-61	Medium term loan scheme	39,295.00	1,421.04
Third Plan Period			
1961-62 to 1965-66	Medium term loan scheme	57,600,00	Nil
	Short term loan scheme Assisting needy fishermen	7,000.00	Nil
	scheme	19,500.00	2,478.79

The payment of loans and subsidies were also made to a considerable extent even after the end of the Third Plan period. The following table gives an idea of loans paid to the private farmers for the development of fisheries in the district between 1966-67 and 1968-69.

Year	Name of Scheme		Loans paid Rs.
1966-67	Development of fisheries through priva	ate farmers	25,900.00
1967-68	,,		95,000.00
1968-69	,,	,	30,540.00

In order to rehabilitate the fishermen families economically, a sum of Rs. 2,982.40 was paid towards free distribution of yarn and a sum of Rs. 12,000.00 was distributed as house building grant in 1967-68. Besides, a sum of Rs. 5,667.35 was also spent for sinking tube-wells. The number of fishermen families benefited during the three plan periods is shown below.

Name of Plan	No. of fishermen benefited
First Plan	820
Second Plan	390
Third Plan	273

¹ Source: District Fishery Officer, Nadia.

During the period from 1966-67 to 1970-71, the number of fishermen benefited under various schemes was 3,878. It may be mentioned also that in 1970-71 a sum of Rs. 50,500.00 was paid to the deserving fishermen families under Flood loan scheme while Rs. 10,000 were distributed as grant. A sum of Rs. 4,000.00 was also paid to some of these families in the same year.

The two principal wholesale fish markets of the district are located in the municipal towns of Krishnanagar and Ranaghat. Besides, there are many retail fish markets in each police station, the total number of such markets in the district being 66. The staff of the District Fishery Office consists of the District Fishery Officer, one Assistant Fishery Officer and two Fishery Sub-Overseers, while there are 16 Fishery Extension Officers in 16 Block Development Offices of the district who are responsible for implementation of various schemes concerning the development of fisheries in their respective areas.

The types of fish available in the district are Rui, Mrigal, Katla, Kalbaus, Hilsa, Koi, Chital, Singhi, Magur, Telapia, Pholoi, Aid, Khaira, Tangra, Punti, Lobster, Boal, etc. Of these, only the principal varieties of carp, namely, Rui, Katla and Mrigal are available in relatively larger quantities.

There were 56 fishermen's cooperative societies in the district towards the end of 1967. These organizations take lease of rivers, bils, and tanks from the Land Reforms and Tank Improvement departments as also from private parties. During the Third Plan period, a sum of Rs. 3,08,250.00 was sanctioned as loans to these cooperatives, the number of families benefied being 320.

There is no record to show the extent to which the district suffered in the famine of 1769-70. The famine of 1866 was felt severely by the people of the district. In 1864, the district was swept across by a cyclone and a severe drought occurred in the following year. Towards the end of October 1885, the Collector reported that the outturn of the rice crop was expected to be less than half of that produced in normal years, and that there was absolutely no hope for the winter crops. The price of rice began to rise gradually and by the beginning of 1866 prices became almost double, resulting in acute distress among the common population of the district. In March of that year, Rev. T. G. Lineke, a missionery of the Church Missionary Society of the district, invited the attention of the then Governor-General on

Fish markets

Types of fish

FAMINES

¹ Source: District Fishery Officer, Nadia.

the subject, while another missionary, Rev. F. Sehurr of Kapasdanga, pointed out to the Administration that respectable farmers were so much reduced in circumstances that they could not employ nearly so many day-labourers as they used to do in former times. He also pointed out that under such circumstances the labouring classes were also reduced to the point of starvation.

This appeal of the missionaries resulted in the calling for a report on the situation and after a thorough enquiry it appeared that the distress was severest in the central part of the district. It also appeared that the distress was least felt in those parts where much of the land had been devoted to date trees, chillis, tobacco, and other more lucrative crops. Rice was not altogether scarce in the district but the working class had little money to buy it at the prevailing prices. As a result, these poor people had to remain satisfied with only one meal a day for months, and it was feared that many had not had even that.

On the basis of information received by Government, a sum of Rs. 20,000 was sanctioned and spent on road-making and other relief measures. Besides, subscriptions were also raised by non-official agencies for the relief of the sufferers in May after organizing public meetings at Ranaghat, Krishnanagar and other places. Before the end of the month, relief operations were started at different places where they were most needed and a sum of Rs. 5.000/- was allotted to the district by the Government from the unexpended balance of the North-West Provinces Famine Fund. With the coming of June, the distress became severe and a total of about 2,500 persons was employed on the special relief works, while 4,000 persons were employed on public works of all kinds. In August, the District authorities received a further sum of Rs. 30,000/- for relief works. For the purpose of distribution of cooked food, kitchens were established at different centres and in special cases food was also supplied to a limited number of people at their own homes.

The district was affected to a considerable extent by the famine of 1896-97 and as usual the *Kalāntar*, in which only *aman* rice is grown, suffered the most. The average outturn of paddy was on the decline during the years between 1894 and 1895. In most of these years, owing to the failure of the monsoon and the absence of the usual inundations, there was no moisture to swell the grain. In 1896, the outturn was further less. The portion of the district which was first affected was the *Kalāntar*, where test relief works were opened as early as 15th November. Four

Famine of 1897

more police stations were affected by the end of the year and between June and September of the following year it was found necessary to provide relief work to two more thanas. The total area affected covered 1,182 sq. miles of the undivided district, with a population of 6,25,840. The distress was very acute over an area of 503 sq. miles covering a population of 2,66,777. The relief operations started in the middle of November 1896 and continued till the middle of September 1897. During the period, altogether three million persons were employed who excavated about 105 million cubic feet of earth, the money spent on that account being a little over three lakhs of rupees. The average daily attendance on the relief works ranged from 573 in the last week of November 1896 to 29,545 in the third week of June 1897. The Public Works department supervised 5 major works while about 48 minor operations were conducted under the civil agency. The most important work done by the Public Works department through the relief schemes was the excavation of a channel to connect the Bhairab with the Mathabhanga near Sikārpur. The project was completed in time to carry the flood waters of the Mathabhanga into the Bhairab, which greatly improved for a time the water supply of a large part of Meherpur subdivision (now partly in Bangladesh). The canal, however, has since been silted up to a great extent and the Bhairab has lapsed into its old condition of stagnancy.

Gratuitous relief was given to the affected persons from January till September, the aggregate number of persons given such relief being a little over six millions. The daily average relieved ranged from 1.675 in the third week in January to 77,233 by the third week of June. The gratuitous relief given was in the form of doles of cleaned rice at the rate of half seer per diem for adults and quarter of a seer per diem for children. "In return for the doles, those who were fit for light work were required to either twist $3\frac{1}{2}$ seers of jute into string, or spin one seer of cotton into thread per week. Some of the string and cotton thus obtained was issued to a few weavers who were in distress, and the matting and cloths woven by them were sold." Arrangements were also made by the first day of August for opening kitchens for the issue of cooked food to the dependents of workers. The total expenditure on relief amounted to about 8.25 lakhs.

According to the Collector of the district, the famine of 1896-

¹ J.H.E. Garrett op. ct., p. 79.

97 was far more severe in this district than was that of 1873-74. In spite of this, it was possible in 1896-97 to close Government relief a month to six weeks earlier than was possible in 1873-74 and it was chiefly because by "somewhat liberal administration during the time of cultivation of the *aus* crop, the people were enabled to obtain a better outturn than would otherwise have been possible, that it was not necessary to continue Government relief for a month or six weeks more."

Distress of 1908

In 1908, famine conditions prevailed again in the district owing to almost complete failure of the monsoon in the months of September and October, whereby the outturn of the aman rice was reduced to only 13 per cent of a normal crop. The distress spread over an area of 800 square miles with a population of 4.35,000, the $Kal\bar{a}ntar$ being the tract which had to suffer the most. When the relief work was started in January, there was little response from the working population. But with the advent of March the distress was acute and induced many people to participate in relief operations. In April, the number of people attending the relief works was 3,400 per day and this number swelled to 5,677 in June. By the end of September, it was felt unnecesary to keep the relief works open any longer and as such these were discontinued. A total amount of Rs. 9.859 was spent on gratuitous relief during this period and a total sum of Rs. 6,69,535 was distributed as loans under the Land Improvement and Agriculturists' Loans Acts. The total amount expended on relief works was Rs. 1,59,414, the total quantity of earth work executed being 65.5 million cubic feet.

Drought of 1927-28

During the year 1927-28, parts of the district suffered from deficient rainfall, resulting in failure of winter crops which caused acute distress, particularly, to the cultivating classes and landless labourers. To meet the situation, relief operations were started by the District Boards concerned with their own funds, supplemented by advances from Government. Land Improvement and Agriculturists' loans were also distributed according to requirements. Besides, various relief committees were organized to help the affected people. Government supplemented the resources of the Local Bodies by allotting fund for gratuitous relief. But most of these measures were undertaken in the year 1928-29. In the year 1930-31 also unseasonable weather did some damage in some parts of the district.

Ibid., p. 80.

Apprehensions felt at the end of 1935 that acute distress would later prevail in parts of the district proved unfortunately to be true, and relief operations had to be undertaken by Government over a wide area, practically, throughout the first nine months of 1936. During this period, almost every district in the undivided Presidency and Burdwan Divisions was affected in varying degrees. In fact, a total area of more than 7,000 sq. miles inhabited by over three million people was affected. Nadia was one of the districts where the distress was acute and relief measures had to be undertaken.

Famine of

1943

Distress of

Historically, the famine of 1943 was building up since the declaration of the Second World War in 1939 which kept the Government machinery pre-occupied in fighting. With the spread of armed conflict in South-east Asia in 1941, the import of rice from Burma was stopped wholly and in the country the demand for food increased considerably on account of the presence of the fighting forces and the large number of refugees fleeing from areas which fell to Japan. The partial failure of aman crop in 1941 added to the difficulty of the situation. The next aman crop with a much better yield helped to make up the previous year's deficit, but did not permit any saving or accumulation of stocks. The year 1943 witnessed another widespread failure in agricultural production which, coupled with the visitation of a devastating cyclone in some parts of lower Bengal, created a food crisis of an unprecedented nature.

The food prices began to rise steeply from November 1942 and continued till August 1943 when they soared far beyond the reach of the average consumer. Rice in the district was quoted at Rs. 40 to Rs. 50 per maund, a situation which forced the common people to starve. The starving people left their homes in the villages and came to urban areas, specially to Calcutta in search of food and it is at this stage that the Administration, both at the Centre and also in the Province, found itself unprepared to meet the challenge. Though details are not available, it may be said that along with other parts of the Province Nadia district also had to suffer to a great extent, the number of starvation deaths being quite high. Relief measures were started on a wide scale about the middle of August 1943 and by the end of that year the army was called to help the Civil authorities to combat the menace. With better organization and promptitude, tl ensured quick distribution of food grains and ultimately brought the situation under control.

FLOODS

Floods and droughts of 1958 & 1959

Nadia district was almost devastated by floods during the year 1956 when it caused severe damage to standing aman crops. As a relief measure, the Agriculture department distributed rabi seeds, wheat and pulses to the affected village people free of cost. The flood year was followed by severe drought in 1958. Aus, Jute and aman crops were badly damaged. The Agriculture department distributed rabi seeds on subsidy. The year 1959 also witnessed floods of unprecedented nature which caused serious damage to standing crops inundating village huts, roads and buildings. About one lakh acres of aman paddy throughout the whole district was almost destroyed. As a relief measure, Government undertook distribution of rabi seeds, such as, wheat, pulses, potato, etc. to the distressed cultivators. To counteract droughts, small irrigation schemes and sinking of shallow and deep tube-wells have been undertaken in recent years and these measures have yielded some beneficial results.

Floods of

The flood situation in 1970 has been the worst in recent times. All the major rivers including the Bhagirathi, Jalangi and Mathabhanga were in spate. About 750 km. of roads was washed away and a number of bridges were declared unsafe for heavy vehicles. The town of Navadwip was under two to three metres of water. Many parts of Krishnanagar town were also affected. The floods affected about 18,000 sq. km. of the area of the district.¹

सन्धर्मेव जयते

¹ United Bank of India, Report of the fact-finding Survey on Nadia District, West Bengal, Calcutta, 1971, p. 11.

CHAPTER V

INDUSTRIES

The district of Nadia is essentially an agricultural district, the bulk of the working population being engaged in various agricultural pursuits. According to Census 1961, a little more than three-fourths of its workers are engaged in the agricultural sector either as a cultivator or an agricultural labourer. In this district 172 for every thousand male workers are engaged as agricultural labourers while this number for the entire State of West Bengal is only 144. More men are engaged in this district in house-hold industries than in other parts of the State. In Nadia, every fifteenth male worker is employed in household industries whereas this proportion is only 30 per thousand in the entire State. The incidence of handlooms chiefly carried on as a household industry has principally contributed to the high percentage of workers in this particular sector.

Old-time Industries

Of the old-time industries, mention may be made, firstly, of the cotton weaving industry located mainly at Shantipur. This industry was very prosperous towards the end of the eighteenth and the beginning of the nineteenth century. Owing to the importance of Shantipur in those days, a Resident's headquarters under the East India Company was established there. During the first few years of the nineteenth century, the company purchased here £1,50,000 worth of cotton cloths annually. This industry was on the decline by 1813 owing to the introduction of cheaper piece-goods from Manchester in the Indian market and in 1825 it received a severe set-back due to the introduction of British yarn which was ultimately responsible for the complete extinction of country yarn in later years.

Cotton Weaving

Basket-weaving was also an old-time industry where both sexes worked together. $^{\circ}$

During the first half of the nineteenth century the manufacture of indigo was perhaps the most important industry of Nadia district. The British business community took over the small indigenous industries of the district paying the original owners their dues and invested large sums for the development of this

Indigo Industry

B. Ray, Census 1961: District Census Handbook: Nadia, Calcutta.

² J. H. Garrett. Bengal District Gazetteers: Nadia, Calcutta, 1910, p. 92.

^{1967,} p. 61. 3 Loc. cit.

industry. Large factories rapidly sprang up and the district soon became dotted with indigo concerns. The British planters had enough money for investment and paid large sums as advances to the ryots to grow indigo. With the spread of cultivation, the European planter gained for himself an important position in the district. There were also occasional clashes between the planters and the large native landlords, and holders of subtenures who had found that their influence was interfered with by the planters. The managers and assistant managers of the indigo concerns could hardly find time for effective supervision of their work and had to leave it to their subordinate employees who used to fleece the cultivators. As the planters often refused to hear complaints from the cultivators and redress their wrongs, a very bitter feeling was generated against the factories. Besides, the illegal practices committed in the badly managed factories to enforce cultivation of the plant coupled with the sudden rise of other agricultural produce brought home to the cultivators the loss which they had sustained by the cultivation of indigo. The chronic indebtedness of the ryots which was recorded in the books of the indigo concerns from father to son added to the growing restlessness of the cultivators. When a rumour was started that the Bengal Government had declared itself against indigo-planting, the whole district got into a ferment leading ultimately to the uprising of 1860. After the storm was over, the industry was carried on for some more time though the glamour of the industry had already gone. Meanwhile, the invention of synthetic indigo reduced the price of the natural dye to such a great extent that it led ultimately to the destruction of the indigo industry.

Sola hat industry The manufacture of sola hat is another old-time industry of the district during the days of East India Company when the craft was very flourishing. Europeans almost universally used the sola hat as protection against the tropical sun. The production centres are at present located mainly at Kaliganj and Harināthpur villages under Kaliganj Development Block. It is gathered on local enquiries that one Fakir Chānd Mālākār introduced the craft in this locality about two hundred years ago. The principal products of the industry were sola hats for which there was a ready market at Calcutta. At one time a good number of hats were also exported to different colonies of the British Empire situated in the Torrid Zone.

The principal raw material used in this industry is sola grown in marshy lands which is also available in plenty from the local bils in water-logged areas. The technique of production is also simple. Dry sola plants are served by sharp knife and then sola planks are made. These planks are placed upon the hat mould one after the other with gum mixed with Copper Sulphate. When the hat takes a complete shape it is plastered with paper and put into the sun for about 6 or 7 hours and the frames thus prepared are sent to Calcutta market in the Chandni Chawk area. There are tailors who cover the frames with various types of cloth according to the shape and quality of the sola hat frames. There was a time when this industry could employ about 2,500 persons though at present only 50 or 60 persons are engaged in the industry. The industry is on the verge of extinction because there is no demand for the product in these days.

Other old-time industries include brass and bell-metal industry, household pottery, etc. which provided employment to a good number of people in the past. These industries have been elaborately dealt with under the sub-section cottage industries and need not be discussed here. It may only be said that the old-time industries received a setback with the gradual increase in the cost of raw materials, the introduction of mill-made goods and above all, owing to the change in taste which turned the The introduction of buyers away from traditional products. mechanical and electric powers in recent times led to the rise of such new industries as rice and oilmilling and other industrial enterprises depending on power. According to Census 1961 the total number of persons primarily engaged in any household In household industries industry in the district is 41,909. workers are mostly engaged in manufacturing of foodstuffs, tobacco products, cotton textiles, manufacture of wood and wooden products, non-metallic mineral products other than petroleum and coal, basic metals and their products except machinery and transport equipment and other miscellaneous manufacturing industries.1 The development of Kalyani Township in recent years has also contributed to the growth of various new industries in the district. Manufacturing of plants and machinery for tea industries and manufacturing of cycle parts, production of yarn, re-rolling of steel rods, angles, etc. Other industries

Rise of new industries

¹ B. Ray, op. cit., p. 63.

and fabrication of steel materials are some of the new industries which are likely to create greater employment for the working population in near future. The following statement shows the number of registered factories with average daily number of workers employed in each case for some selected years between 1955 and 1971.

NO. OF REGISTERED FACTORIES IN NADIA DISTRICT SHOWING AVERAGE DAILY NUMBER OF WORKERS EMPLOYED IN EACH CASE: 1955-711

Year	No. of registered factories in the district	Average daily number of workers employed
1955	6	748
1960	21	1,784
1965	55	5,443
1969	68	6,106
1971	55	5,562

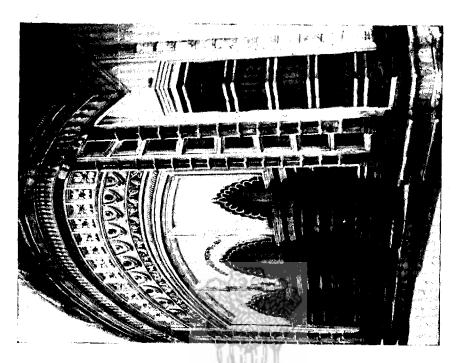
Power

There is no hydro-electric or thermal power station in the district. Electricity had been generated in the past only in some small isolated areas by licensees under the Electricity Act. 1910. The areas of supply did not in most cases extend beyond the municipal boundary. As such it may be said that before Independence the supply of electricity was restricted only to municipal towns.

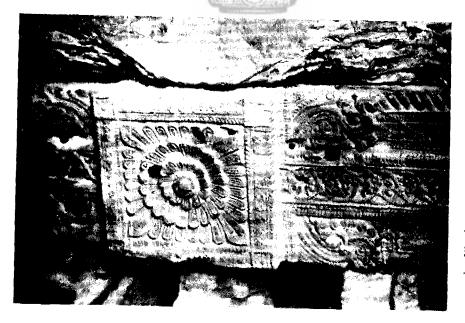
Developments of Electricity in the district The first licence for distributing electricity in Nadia district was granted to M/s. B. N. Elias & Co. in 1933 for supply of electricity in the town of Krishnanagar. The licensee erected a small diesel electric power station and started supply of energy from the month of April 1937. Another licence was also granted to the same Company in 1937 for distribution of electricity in Navadwip. Supply commenced in Navadwip from 6th August 1940. Thereafter, there had been no appreciable growth in the electricity business in the district of Nadia.

The Central Government enacted the Electricity (Supply) Act in the year 1948 and under this Act provision was made for constitution of Electricity Boards in States with a view to rationalization of the production, distribution and supply of elec-

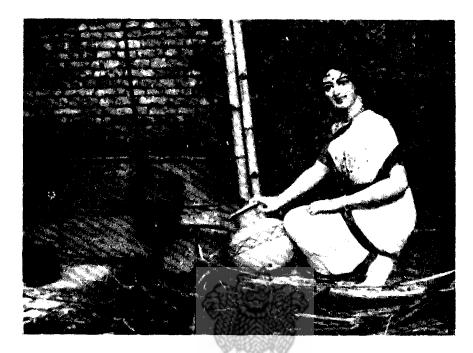
¹ Source: Deputy Chief Inspector of Factories, West Bengal.



z. Gokulchänd temple, Shantipur.



 Wooden pillars of the Chandimandap in Birnagar temple complex.



1. Clay model of Krishnanagar,



2. Clay models on display at Ghurni, Krishnanagar



Handtoom sauts of Shantipur,



1. Bottling plant, Haringhata Dairy.



2. Cowshed at Haringhata Dairy,

tricity and taking other conducive measures for electrical development. Pending the formation of the Electricity Board, the then Electricity Development Directorate of the State Government anticipated this function and started to plan and execute schemes with particular reference to unelectrified areas. Under a scheme known as the Diesel Electrical Pool Nursery Development, pending supply of power from extra High Transmission System, small diesel generating sets were installed in several towns and semirural areas in order to develop load in these places. Ranaghat and Shantipur were electrified in this way. There was another scheme known as North Calcutta Rural Electrification Scheme for transmission and distribution of electricity over an area of about 3,000 sq. km, to the north of Calcutta. Power is purchased in bulk under this scheme from the Calcutta Electric Supply Corporation and distributed to the districts of Nadia, Murshidabad and a portion of Barddhaman. The main line was at 66 KV single circuit. In the district of Nadia step-down sub-stations were erected at Haringhata, Ranaghat, Shantipur and Krishnanagar. From these sub-stations 33 KV and 11 KV lines were drawn to distribute electricity to different undertakings. Within the First Five Year Plan period Kalyani, Gayespur, Birnagar, Badkulla, Chakdaha, Matiari, Bethuadahari and Palashi were provided with electricity.

Another undertaking was also provided with electricity at Karimpur by installation of small diesel power station. With the completion of the North Calcutta Rural Electrification Scheme, the Electricity Development Directorate also arranged for high voltage supply to the Krishnanagar Electric Supply Company Ltd., the date of commencement of the supply being 24th May 1950. Within a short period, the supply at Ranaghat and Shantipur was also changed over from diesel generation to the grid system.

Under the provision of Electricity (Supply) Act, 1948 the State Electricity Board was constituted in West Bengal on 1st May 1955. After formation of the Board, great stress was given on expansion of electricity in rural areas with the object of developing rural industry as well as agriculture. An extensive net-work of 33 KV and 11 KV lines were drawn throughout the district and quite a number of places were electrified.

At Kalyani arrangement was made for supply of electricity to small and medium industries. Arrangement was also made to give connexion to deep tube-wells for irrigation purposes, especially, in the Police Stations of Kaligani, Nakasipara and Expansion of electricity after formation of the Board

Ranaghat. The total number of deep tube-wells connected as on 31st March 1971 was 447. It may be added in this connexion that with the commencement of the Board's first Super Thermal Power station at Bandel during 1965-66 extra High Transmission line at 132 KV was also commissioned to bring power directly from Bandel to Ranaghat. The total quantities of energy consumed in the district from 1966-67 to 1968-69 are shown in the statement below.¹

	1966-67	1967-68	1968-69
Energy consumed	3,83,25,201	4,22,71,351	4,94,24,707
Industrial Consumption Non-Industrial Consumption	2,79,47,583 1,03,77,618	2,88,07,389 1,34,64,462	3,31,84,088 1,62,40,619

Of the places electrified by the private licensees in the early thirties, mention may be made of Krishnanagar, Ghurni, Sandya and Roypukur which were provided with power in April 1937. In 1940 Navadwip town was electrified while other areas under the Navadwip police station, such as, Maheshganj and Tiorkhali were electrified in 1948. Gadigacha, another village within this police station, was electrified after Independence on 29th June 1953.

The following statement furnishes data relating to sale of electricity to ultimate consumers in the district during the period from 1964-65 to 1968-69. (The figures are in Kilowatt hours).

Year	Agency	Total Units sold	Industrial consumption	Non- Industrial consumption
1964-65	State Electricity Board	2,47,99,819	2,08,06,642	39,93,177
	Private	37,56,238	9,11,916	28,44,322
1965-66	State Electricity Board	2,95,46,226	2,48,89,245	46,56,981
	Private	41,35,225	11,04,871	30,30,354
1966-67	State Electricity Board	3,36,37,263	2,66,37,356	69,99,907
	Private	46,87,938	13,10,227	33,77,711
1967-68	State Electricity Board	3,75,68,856	2,76,17,453	99,51,403
	Private	47,02,995	11,89,936	35,13,059
1 968-69	State Electricity Board	4,44,17,752	3,19,73,726	1,24,44,026
	Private	50,06,955	12,10,362	37,96,593

¹ Source: West Bengal State Electricity Board.

In the last decade there has been a steady progress of the village electrification scheme in the district. Up to 1968-69, 359 places have been electrified. Such places (mauzas) numbered 62 in Ranaghat P.S., 44 in Krishnanagar P.S., 21 in Kaliganj P.S., 52 in Chakdaha P.S., 32 in Shantipur P.S., 7 in Navadwip P.S., 17 in Chapra P.S., 24 in Hanskhali P.S., 21 in Nakasipara P.S., 18 in Tehatta P.S., 29 in Haringhata P.S., 24 in Karimpur P.S. and 8 in Krishnaganj P.S.

Progress of rural electrification

As a result of partition of Bengal in 1947, the district of Nadia was also partitioned when a vast area having considerable industrial potentiality was transferred to East Pakistan (now Bangladesh). At the same time, a large number of people being uprooted from their home and hearth in East Bengal (now Bangladesh) migrated to and settled in this district. Thus a new problem for the district was created. The number of people was found to be much more than the land could absorb, and for providing economic employment to all concerned, the need for rapid and extensive industrialization was keenly felt. Emphasis was laid on the growth of small-scale and village industries, considering that these industries are labour-intensive requiring less capital investment and are capable of uplifting the rural economy in a comparatively short period.

INDUSTRIES AND MANUFACTURES

While there are no mining and heavy industries in the district there has been a steady growth of a few large-scale industries in recent years. Immediately after Independence there was only one large-scale industry in the district. By the end of 1960, however, at least six large-scale industrial units were established. More industrial units have been added in recent years and the number of such units employing 100 workers or above was 14 in 1970. The Kalyani Spinning Mills Ltd. located at Kalyani employed the highest number of workers in 1970, the number of persons being 1.337. In the same year, M/s. Sen & Pandit Industries Ltd. employed 530 workers while Ramnagar Cane & Sugar Co. Ltd. at Teznagar, Palashi gave employment to 344 workers. The following statement which gives the list of industrial units employing 100 persons or above in 1970, indicates that new industries have developed in the district in recent vears.1

Large-Scale Industries

¹ Source: Deputy Chief Inspector of Factories, West Bengal.

Name of the Industrial Units with addresses	No. of persons employed in 1970
Ruttonjee & Co. Ltd., Kalyani Breweries, Block 'D', Industrial Estate, P.O. Kalyani	.13.1
Nadia Textile Mills, Old Berham pur Road, P.O. Ranaghat	146
Bengal Fine Spinning & Weaving Mills Ltd., Mill No. 2, Kataganj Government Colony, P.O. Kata- ganj	18,8
Shree Durga Processing & Finishing Mills, 34. Naional High Way, P.O. Ranaghat	109
The Rehabilitation Industries Corporation Ltd., Gayespur Pro- duction Centre, P.O. Gayespur	264
The Rehabilitation Industries Corporation Ltd., Khosh Bash Mahalla Production Centre, P.O. Chakdaha	370
The Rehabilitation Industries Corporation Ltd., Taherpur Pro- duction Centre, P.O. Taherpur	208
Tape & Dies Ltd., 4/1, Navadwip Road, P.O. Krishnanagar	180
Davidson of India Private Ltd., Kalyani Industrial Estate, Block 'D', P.O. Kalyani	362
Ancillary Industries Cranks Private Ltd., Industrial Estate, Block 'D', P.O. Kalvani	113

Most of these industries, excepting the sugar mill procure raw materials from outside the district while a good quantity of the same is imported from other countries. The products of these industries have a good market in this country and some entrepreneurs are also trying to export a portion of their products.

Spinning Mills

The Kalyani Spinning Mills is a State undertaking which is The Kalyani located at Kalyani and engaged in the production of fine cotton varns (605 and above). It was registered under Company's Act on 1st April 1960 and started production on 31st March 1961. In 1965-66 the Kalyani Spinning Mills produced 10,32,070 kgs. of yarn and sold goods over Rs. 1.26 crores for use in the handlooms and powerlooms of West Bengal. During this period the Mills operated 50,000 spindles working in three shifts, employing about 1,300 workers. Cotton used by the mills was mostly imported and was worth over Rs. 48.78 lakhs.2 According to an estimate of 1967 West Bengal requires about 178 lakh kgs. of varn for her handlooms in both the cooperative sector and outside and about 33 lakh kgs. of yarn for powerlooms in the cooperative sector. The number of handlooms in the State is about 1.60,000 in addition to 1.600 powerlooms in the cooperative sector. The main purpose of setting up the Kalyani Spinning Mills was to feed the handloom weavers and the hosiery trade, primarily of West Bengal, But the production of the Kalyani Spinning Mills being inadequate the authorities decided to establish a second unit at Habra with an installed capacity of 25,000 spindles for production of coarser yarn. The work there is still in progress. Meanwhile, the existing unit of Kalyani is being expanded by an additional 25,000 spindles for the production of 100 per cent combed hosiery yarn.

The workshop of M/s. Sen & Pandit Industries is tocated at Kalyani. The products are bicycle rims and brackets, most of which are supplied to M/s. Sen Raleigh Industries. This is a Private Limited concern. The raw materials are mostly imported.

Sen & Pandit Industries

Quite a good number of units in me small-scale sector are small-scale working in this district. These industries, which are mostly dependent upon power, are located in urban and semi-urban areas. A brief description of some of these industries is given helow.

Industries

Powerloom units are usually tound in Kanagnat, Shantipur, Powerloom Phulia, and Birnagar. In 1960, about 35 units were operating in this district. The products are mainly dhutis which are sent to Calcutta for calendering. Most of these units are proprietary concerns, though some are also working within the cooperative In 1960, the total capital investment in this sector was

^{1 &}amp; 2 Government of West Bengal, Economic Review: 1966-67, pp. 28-29.

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Rs. 10 lakes approximately. In 1065-66, there were at least seven powerloom units, each of which actually produced over 2.00.000 metres of cloth.

Flour and Rice Mills In 1965-66, there were 13 registered units for paddy husking, wheat crushing and oil pressing in the district besides numerous unregistered units. In 1970, 20 units were working throughout the district consuming oil-seed procured locally and also from the Calcutta market. Rate of wages of the workers varied from Rs. 100/- to Rs. 150/- per month in this industry during this period.

Carpentry and Saw-mill

In 1960, about 25 units relating to carpentry and saw-mill were working both in the public and private sectors. These units were located at Kalyani, Navadwip, Krishnanagar, Taherpur, Karimpur, Chakdaha and Ranaghat. The total capital investment was nearly 20 lakhs of rupees.

Paper and Board Mill While one Board Mill is working in the Phulia Township in the private sector, there is also one more mill for production of hand-made paper in the public sector. In 1965-66, Messrs Phulia Paper and Board Mill located at Phulia Colony produced about 360 tons of mill board and the number of workers employed in this industry was 40, the total capital investment being about Rs. 20 lakhs.

Bricks and

In 1965-66, about 400 persons were engaged in the manufacture of structural clay products of which bricks and tiles are the most important. During the period, three industrial units were functioning and these were located at Krishnanagar.

Fireworks

One factory located at Char-Kanchrapara is engaged in the production of different types of fireworks. It is a proprietary concern, the capital investment being nearly five lakhs of rupees. The factory employed about 80 persons in 1965-66.

Other industries

Among other small-scale industries mention may be made of one clock manufacturing unit which is working in the private sector at Navadwip. The capital investment is about one lakh of rupees. One mechanical toy manufacturing unit is also working at Kalyani in the cooperative sector. There are small working centres of machine shops having lathes, drills and other machines. These units are mainly engaged in production of watch repairing tools, pressure gauge, etc. About six such units are working in Krishnanagar, Ranaghat, Navadwip and Kalyani, the total outlay in these units being Rs. 1.5 lakhs. There are at least five registered units which manufacture celluloid articles, chiefly, celluloid combs. These units are located at Chakdaha

and the number of persons employed in these units in 1965-66 was 48. In the same year there were five units for the manufacture of metal products such as metal containers and steel trunks employing 64 workers. There were also three ancillary industrial units located at Kalyani Industrial Estate for manufacturing various types of metal products in 1965-66. These units provided employment to 207 persons.

Most of the enterprises in the small-scale industries mentioned above are run in the private sector. The raw materials are procured mostly from outside the district with the exception of some special types of industries. In 1961, about 2,100 persons were employed in this sector.

Cotton weaving was once a very important industry of the district. It has already been stated that Shantipur was the centre of a great and prosperous weaving industry at the end of the eighteenth and beginning of the nineteenth century. the end of this century the weaving industry received a great set-back owing to the introduction of manufactured cloth from England. The number of weavers gradually decreased as many of them, finding the business unprofitable, took to other professions. In 1898, in almost all villages in this district, there were a few families of tantis and iolahas who used to turn out coarse cloth for the use of cultivators and the poorer section of the village community. Several villages which had a reputation for doing business in weaving, such as, Chakdaha, Tehatta, Dumurdaha and Dagalbi, lost their importance with the decline of the weaving industry, though in some of these places the profession is still lingering. Shantipur remained the most important centre all through these years and towards the beginning of the present century it was the only place where fine muslin was manufactured. The speciality of this place is commonly known as Shantipur cloth, and it is specially admired for its thin texture, and embroidered and flowered border work. It is reported that in 1898 the outturn of the cotton cloths in Shantipur was worth about Rs. 3.25 lakhs annually but this was followed by a great decline during the next ten or twelve years.

According to a survey conducted by the Directorate of Industries, Bengal in 1940 it was observed that Shantipur was probably the only municipal area in undivided Bengal where extensive handloom industry existed. At that time out of a total of about 27,000 persons in the town as many as 10,000 were reported to be members of weaving families. That year

Cottage industries

out of a total of 9,996 weavers in the whole undivided district of Nadia as many as 4,000 were concentrated in Shantipur, town. The handloom industry of this place adapted itself quickly to changing patterns of production and market through the extensive use of Jacquard machines which in its turn saved the industry at Shantipur from decaying. The total number of looms in 1940 at this centre was estimated to be 3,450 of which 2,500 were fly-shuttle Jacquard fitted looms, 800 Dobby looms, and 150 throw-shuttle looms. Indeed, the weavers were and are still very much alive to changes in variation and design. Since Independence, the district has attracted expert immigrant weaving families from East Pakistan (now Bangladesh) who are now settled in areas like Phulia, Taherpur, Birnagar, Badkulla and Ranaghat, swelling the number of Shantipur mahāians and weavers.

The products of Snanupur include the famous Shantipur saris which are very fine in texture with beautiful borders of jari, silver or gold. The perfect whiteness and elegance of the products and the artistry of the borders have a special market all over the State. The artistic side has been well recognized and there is a conscious effort on the part of each weaver to weave a really good and artistic fabric. Under the supervision of the Directorate of Industries of the State Government the productive technique at Shantipur has reached a fairly high degree of perfection.

The cotton weaving centres of the district are mostly located under Sadar and Ranaghat subdivisions as shown below

Name of	Name of	No. of
subdivision	Police Station	Weaving Centres
Sadar	Krishnaganj	1
	Navadwip	0
	Kotwali	2.
	Kaliganj	2
	Tehatta	3
	Chapra	2
	Nakasipara	I
Ranaghat	Ranaghat	8
Ť	Shantipur	4
	Chakdaha	1

¹ Source: Handloom Development Officers, Shantipur and Navadwip.

In recent years, substantial technological changes have taken place in the handloom industry in respect of weaving and preparatory process. Primitive and throw-shuttle looms have been converted into fly-shuttle looms and semi-automatic looms to raise production per loom and for the purpose of standard and quality production. For quick preparatory work, the wrapping drum has been introduced eliminating the primitive $h\bar{a}t$ $t\bar{a}n\bar{a}$ process and thereby lowering the labour charges. It has already been stated that for making better designed fabrics, Dobby and Jacquard machines have been introduced.

The units of this industry can be found in different villages and municipal areas under Sadar and Rānāghāt subdivisions. The following table gives the total number of handlooms with quantity of cloth produced and their value for some selected years.

NO. OF HANDLOOMS OPERATING IN THE SADAR SUBDIVISION WITH QUANTITY OF CLOTH PRODUCED AND THEIR VALUE: 1965-70

Year	No. of handlooms	Quantity of cloth produced (in metres)	Approximate value (in rupees)
1965-66	11,550	1,38,60,000	1,52,50,000
1966-67	9,300	1,11,60,000	1,34,00,000
1967-68	11,750	1,41,00,000	1,76,00,000
1968-69	12,000	1,44,00,000	2,16,00,000
1969-70	12,250	1,47,00,000	2,20,00,000

In Ranaghat subdivision the weaving centres are primarily located at the police stations of Ranaghat, Shantipur and Chakdaha. The following statement gives the names of the police stations and the villages or municipal areas where the centres were in existence in 1970.

Name of police station under Ranaghat Subdivision	Village or municipal area where the weaving Centres are located	
Ranaghat	Aishtala, Sim-Aishtala, Birnagar Taherpur, Nasherkuli, Saugas Bagan, Krishnapur Chak, Ram nagar.	
Shantipur	Shantipur, Phulia, Paliadanga, Nrishinghapur.	
Chakdaha	Silinda.	

While a good number of handloom cooperatives are functioning in the district with adequate assistance from the Industries Directorate of the State Government, there are also individuals who are running the trade independently with their own resources. The following statement gives an idea of the number of handlooms operating in the cooperative sector with quantity of cloth produced for the period from 1965-66 to 1969-70 in the subdivision.

Year	No. of handlooms in the cooperative sector	Quantity of cloth produced (in metres)	
1965-66	788	9,93,018 approx.	
1966-67	788	9,91,420	
1967-68	400	5,04,069 ,,	
1968-69	400	5,03,150	
1969-70	383	4,82,646 ,,	

The number of handlooms working outside the Cooperative sector is greater than those under the Cooperative sector as can be seen from the table given below:

NO. OF HANDLOOMS WORKING OUTSIDE THE COOPERATIVE SECTOR IN RANAGHAT SUBDIVISION WITH QUANTITY OF CLOTH PRODUCED: 1965-70

Year	No. of handlooms outside cooperative sector	Quantity of cloth produced (in metres)
1965-66	11,142	1,93,87,500
1966-67	11,142	1,83,06,400
1967-68	11,530	2,00,62,200
1968-69	11,530	2,10,03,400
1969-70	11,547	2,00,92,200

The jacquard looms as well as ordinary fly-shuttle looms can still be seen side by side at different weaving centres of the district. Whereas, the jacquards are specialized in design $\delta \bar{a}ris$, the others still weave dure $(m\bar{a}th\bar{a}$ $\delta \bar{a}ri)$ and ordinary dhuti. The jacquard looms were introduced in the area in the late twenties and it is reported that one Bhupati Charan Pramanik introduced it. Before the introduction of jacquards, the weavers were used to produce designs by hand only $(h\bar{a}te\ tol\bar{a}\ buti)$ in ordinary throw-shuttle looms as embroidery work. During this period, the weavers were mostly designers themselves. This posi-

¹ Source: Handloom Development Officer, Nadia,

tion has changed since. At present, the designs are on punched card set on Jacquard machine and the weaver is not necessarily a designer himself. The designs are being evolved as a separate job and the weavers mostly start with designs converted on punched cards by them. There are, however, some weavers who are also good designers themselves. Most of the existing design-weavers belong to the age-group of 25-40 as the heavy jacquard looms can only be conveniently operated by the younger group possessing more stamina.

Brass and bellmetal industry

Brass and bell-metal industry was once a flourishing industry of the district employing a large number of rural artisans. According to a report of the Directorate of Industries of the Provincial Government published in 1939, Navadwip was reported to produce in that year 130 maunds of brass and 125 maunds of bell-metal articles, valued at Rs. 3,800 and Rs. 8,500 respectively. In the same year, while Matiari was reported to produce 12,000 maunds of brass articles, valued at Rs. 3,00,000, Dharmada and Barakandua were reported to produce 900 maunds of brass and 400 maunds of bell-metal articles, valued at Rs. 18,000 and Rs. 28,000 respectively. Ranaghat also produced 900 maunds of brass products, valued at Rs. 18,000. In Matiari alone, over 300 families were estimated to be engaged in this trade. At this centre there were 6 mahajan factories and 40 family factories in 1940 employing about 1,000 workers. In the same year, there were 60 family factories in Navadwip engaging 200 workers. Sadhanpara and Bahirgachi had 50 and 41 family factories engaging 274 and 200 artisans respectively. Ranaghat had 8 family factories providing employment to 40 persons. The economic condition of the workers in those days, however, was not very satisfactory. It was estimated that the extent of indebtedness in 1940 was Rs. 50 to Rs. 60 per head in Ranaghat and in Sadhanpara Rs. 30 to Rs. 40 per head.¹

In the years that followed the industry received a set-back owing to the introduction of aluminium utensils in the market. At present it is hardly possible for it to compete with aluminium and stainless steel utensils made in the large and small scale sectors. Scarcity and high price of raw materials have added to the difficulty of the situation. The requisite amount of working capital required at present for mechanization of the units and import of raw materials is not also readily available in most

¹ A. Mitra, Census 1951, West Bengal District Hand Book: Nadia, Calcutta, 1953, p. xxxiii.

cases. At present about 5,000 artisans are engaged in this trade in the district, the number of industrial units which are located mostly in the village of Matiari being 87.

In 1966, Messrs Harinarayan Sen & Ram Prosad Sen of village Matiari produced 79,673 kgs. of brass utensils providing employment to 32 artisans which was the maximum employment given by any single unit in that year. The following statement gives the principal items manufactured, quantity and the number of persons employed in a single unit for the year 1966. Only those units which provided employment to 10 persons and above have been taken into consideration.¹

Name of the Unit	Principal items manufactured	No, of a persons employed	Quantity manu- factured
M/s. Bhawani Prosad Das, Vill. Matiari	Brass and copper utensils	15	15,600 kg.
M/s. Bhawani Prosad Barman, Vill, Matiari	Brass metal utensils	16	15,600 kg.
M/s. Chatterjee & Dutt Bros., Vill. Matiari	Brass and bell-metal utensils	16	73,200 kg.
M/s. Harinarayan Sen & Ram Prosad Sen, Vill. Matiari	Brass utensils	32	79,673 kg.
M/s. Narayan Chandra Raha,	Brass utensils	12	20,400 kg.
Vill. Matiari M/s. Panchu Gopal Das & Renupada Das, Vill. Matiari	Brass and copper utensils	10	12,000 kg.

Pottery Industry

The wage of an artisan engaged in this industry varied from Rs. 3.00 to Rs. 5.00 per day in 1966. The industry is at present languishing for want of adequate supply of raw materials at cheaper rate and finance.

There are certain centres in the district which are famous for ordinary household pottery. These places include Ranaghat. Habibpur, Navadwip, Kaitpara, Briddhapur and Goari in Krishnanagar. Production in this industry is carried on with the help of simple machineries and tools, the principal raw materials being earth and sand. In 1951, the total number of establishments in the district was 187 engaging 548 persons including women and children under 15 years and less.² There has not

Source: Directory of Small Scale Industrial Units in West Bengal, Calcutta, 1968, pp. 798-804. A. Mitra, op. cit., p. 127.

been any substantial improvement in the employment situation since, owing to non-expansion of the trade. The artisans usually face competition from lighter and more durable aluminium and enamelled products. From a survey conducted by the State Statistical Bureau, Government of West Bengal, it has been found that most of the establishments of the district sell their finished products directly. In some cases, however, these establishments also work only partly for other customers like mahājans and other such middlemen, a part of the sale being effected through these agencies. Most of the establishments are run entirely by family labour and some artisans of the district sell their products hawking from door to door.

Ghurni, the north-eastern suburb of Krishnanagar, has been famous for several centuries for the manufacture of clay figures and models of remarkable excellence. The industry is carried on by a few men of the Kumar caste and their skill has received wide recognition. This trade, however, is on the decline owing to the absence of newcomers in the field. The younger people of the new generation are gradually engaging themselves in other trades or vocations for securing better livelihood. It is becoming difficult for the few artisans who are still engaged in this trade to improve their economic condition because the high price of their products is leading more and more people to purchase cheaper handicraft products for room-decoration and such other The dolls and other models being easily breakable. purposes. it is difficult to send them for sale in distant places. artisans are carrying on the trade in their houses and arrange The raw materials are sales through their shops at Gharni. available locally or from Calcutta. In recent years the Directorate of Cottage & Small Scale Industries of the State Government have arranged to market the products through the different Government Sales Emporia and through different exhibitions in the country.

Mat industry does not appear to be well-organised in this district. A survey made in 1958 revealed that there were 55 individual craftsmen, some in Navadwip and some in Chakdaha and Haringhata police stations. The profit-margin was only Rs. 272 per year per establishment owing mainly to the low outturn.²

Clay modelling at Ghurni

Mat industry

¹ Report on the Pottery Industry — A Type-study, Calcutta, 1963.
2 Government of West Bengal, State Statistical Bureau, Mat Industry:
A Type-Study, Calcutta, 1964, preface.

The industry, though of long standing, was in a more or less moribund condition and only 16 establishments, 6 manufacturing pati from pati-bet and 10 preparing mats from mat-sticks proper, all products of poor quality, were found in Navadwip town; outside Navadwip town only 3 establishments were found. There was also a group of 15 units engaged in the manufacture of coarse quality chatai from the date palm leaves in Tehatta and Karimpur thanas. They consumed on an average 5.3 mds. of date palm leaves produced locally and provided on an average annual income of Rs 35. In Ranaghat subdivision, out of 71 establishments as many as 33 were located in Cooper's camp, a refugee transit camp, where the refugees had taken to this trade as a subsidiary occupation.

INDUSTRIAL
POTENTIAL AND
PLANS FOR FUTURE
DEVELOPMENT

The growth and development of industries usually depend upon certain factors which must exist for creating a favourable condition for industrialization. The population of Nadia district had increased considerably in recent years and the land available for agriculture can hardly support the people. Moreover, being situated very near the industrial belt of Calcutta. the higher cost of living as well as rapid urbanization cannot perhaps be prevented. This necessitates the setting up and development of industries, mostly of consumer goods. Though this district has no mining products and other industrial raw materials of importance, the availability of a large quantity of jute, sugarcane, raw hides, skins, etc. justify the setting up of certain types of industries based on such raw materials. Facilities for communication have also increased considerably in recent times. Apart from the large net-work of railways, the construction of good roads has made most of the interior places of the district easily The highway linking Calcutta and Siliguri passes through this district providing a ready link with both Calcutta and North Bengal. The opening of D.V.C.'s navigation canal has linked this district with the mining belt of our country. A section has already been devoted to describe the growth and development of power in Nadia district. There is a great demand for power in the district for development of the rural industries. In the recent past, there was a good demand of power from the industrial consumers of certain places, namely, Kalyani, Shantipur, Ranaghat, Chakdaha, Navadwip, Krishna-

¹ Ibid , p. 1.

nagar, Phulia, etc. It is expected that new types of modern industries will develop with further extension of power supply in the district.

Upto the end of 1970, there was no employers' organization in the district. In the same year there were, however, 79 Workers' Unions the headquarters of which were located in the urban areas of the municipal towns as well as in the developed colonies of displaced persons from East Pakistan (now Bangladesh). All these unions are registered under the Trade Union Act of 1926. The table below gives complete information about the trade union organizations in the district as they stood in 1970.

LABOUR AND EMPLOYERS' ORGANIZATION

TRADE UNIONS (EXCEPT THOSE OF TRANSPORT WORKERS) IN NADIA DISTRICT: 1970

Regd. No.	Name of the Union	Address with Affiliation of the Union	Date of Registra- tion	Member- ship Strength
3281	Bidi Sramik Union, Ranaghat	Mahaprabhupara, P.O. Ranaghat (Nil)	8,4.55	51
6134	Bengal Fine Spinning & Weaving Work-men's Union	MILKASIGE IN CO. III	22.9.64	41
7164	Bengal Fine Spinning & Weaving Mills (P) Ltd. Workers' Union		7.8.67	116
8011	Birnagar Powerloom Workers' Union	P.O. Birnagar (A.I.T.U.C.)	16.10.68	128
8450	Bethuadahari Byabasayee Samity	P.O. Bethuadahar (N.P.)	ri 5.9.69	127
4994	Chakdaha Bidi Sramik Union	No. 2 Bankura Colony, Chakdal (Nil)		42
7159	Chakdaha Rehabili- tation Industries Cor- poration Workers' Union	K.B.M.,	27.7.67	215

Regd. No.	Name of the Union	Address with Affiliation of the Union	Date of Registra- tion	
8345	Chakdaha Dokan-O- Sangstha Karmachari Samity	Bus Stand, Chakdaha (A.I.T.U.C.)	21.6.69	40
5950	Eastern Commercial Corporation Workers' Union	Kalyani (N.P.)	22.1.64	135
6898	Phulia Concrete Spun Pipe Workers' Union	56 Phulia Colony P.O. Phulia Colony, (A.I.T.U		
6929	Phulia Sheet Metal & Hardware Industry Workers' Union	Holding No. 100 Phulia Colony (A.I.T.U.C.)	, 16.5.67	
8529	Phulia Anchalik Tantubay Sramik Union	P.O. Phulia Colony (A.I.T.U.C.)	23.3.69	66
7441	Gayespur Rehabilitation Industries Corporation Workers' Union	Ward No. 6,	16.9.67	244
7434	Jawaharlal Nehru Memorial Hospital Employees' Union	20-Stall, Station Rd., P.O. Kalyani	12.9.67	
7758	Jawaharlal Nehru Memorial Hospital Workers' Union	B-12/37-Kalyani P.O. Kalyani (A.I.T.U.C.)	i, 15.3.68	115
8312	Jawaharlal Nehru Memorial Hospital Karmachari Union	B-6/392-Kalyar (N.P.)	ni 11.6.69	50
19 16	Krishnanagar Municipal Employees' Association	P.O. Krishna- nagar	Notice U/s. 10(1 issued— 19.7.70	b)

Regd. No.	Name of the Union	Address with Affiliation of the Union	Date of Registra- tion	Member- ship Strength
3427	Krishnanagar Bidi Sramik Union	P.O. Krishna- nagar	14.6.55	58
3844	Krishnanagar Hawkers' Union	P.O. Krishna- nagar, (N.P.)	28.8.56	47
6450	Kalyani Wood Industry Sramik Panchayet	P-7/44, P.O. Kalyani (N.P.)	28.8.65	43
6612	Krishnanagar Colliery Workers' Union	Krishnanagar Colliery, P.O. Topsi (A.I.T.U.C.)	7.7.66	58
6914	Krishnanagar Small Industries Workers' Union	41-D. L. Roy Road, Krishnanagar (B.M.S.)	5.5.67	
7232	Kalyani Notified Area Authority Employees' Union	Vill. & P.O. Kanchrapara, (N.P.)	19.8.67	161
7383	Krishnanagar Saw Wills Polish & Carpentry Workers' Union	4-D. L. Roy Road, Krishnanagar	6.9.70	49
7399	Kalyani Wood Industries Employees' Union	Nutan Bazar, Kalyani (I.N.T.U.C.)	8.9.67	39
7854	Kalyani Spinning Mills Staff Association	Plot No. 1781, Ward No. 7 Gayespur, (N.P.)	31.5.68	58
3715	Municipal Association	Chakdaha (S.B.M.E.F.)	21.5.56	22
6382	Municipal Employees' Union	Krishnanagar (W.B.M.F.)	8.9.65	381

Regd. No.	Name of the Union	Address with Affiliation of the Union	Date of M Registra- s tion	
2218	Navadwip Dokan Karmachari Samity	P.O. Navadwip (W.S.A.F.)	11.5.51	150
3248	Navadwip Municipal Employees' Association	P.O. Navadwip (W.B.M.E.F.)	6.12.54	103
3547	Navadwip Bidi Karikar Union	Bazar Rd., Navadwip (N.P.)	12.11.55	405
4113	Navadwip Tantubay Sramik Union	Bazar Rd., Navadwip (N.P.)	1.8.57	700
4121	Navadwip Confectionery Workers' Union	Bazar Rd., Navadwip (NIL)	9.8.57	.100
4266	Navadwip Brass & Bell-metal Workers' Union	Bazar Rd., Navadwip (NIL)	5.2.58	50
4406	Navadwip Munici- pal Harijan Mazdoor Union	Municipal Office Rd., Navadwip (I.N.T.U.C.)	29.7.58	201
4848	Nadia Biḍi Sramik Union	Phulia Rail Bazar, P.O. Buicha	23.5.69	111
4878	Nakasipara Thana Bidi Sramik Union	P.O. Bethua- dahari, (N.P.)	Cancelle on 2.12.0	
5746	Nakasipara Thana Bidi Mazdoor Union	P.O. Bethuadahari, (N.P.)	22.4.63	30
5769	Nadia Zila Tant Karmi Sangha	Mission Row, P.O. Ranaghat (I.N.T.U.C.)	7.6.63	362

INDUSTRIES

Regd. No.	Name of the Union	Address with Affiliation of the Union	Date of Registra- tion	Member- ship Strength
6303	Narendrapally Powerloom Workers' Union	Narendra Pally, Chakdaha, (NIL)	18.5.65	36
6416	Navadwip Tant Mazdoor Union	Raonakalikata, P.O. Navadwip (N.P.)	3.11.65	217
6927	Nadia Zilla Press Employees' Union	R. N. Tagore Rd., Krishna- nagar, (H.M.S.)	16.5.67	103
7722	Nadia District Central Co- operative Bank Em- ployees' Union	P.O. Krishna- nagar, (N.P.)	17.2.63	70
7747	Navadwip Boat- man Union	Bazar Rd., (B.P.T.U.C.)	7.3.68	143
7802	Wholesale Con- sumers' Coopera- tive Societies Em-	P.O. Krishna- nagar, (N.P.)	18.4.68	49
7861	Nadia Zila Tant Silpa Sramik Samity	Dorzipur, P.O. Silinda (N.P.)	7.6.68	65
4303	Purbasthali Thana Tantubay Sramik Union	South Serampor P.O. & Vill. Navadwip	e, 6.3.58	50
7756	Purulia Electric Supply Corpora- tion Ltd. Workers' Union	B-16/37-Kalyani P.O. Kalyani (U.T.U.C.)	1, 15.3.68	61
1259	Ramnagar Cane & Sugar Co. Ltd. Employees' Union	P.O. Palashi	2.1.48	160

Regd. No.	Name of the Union	Address with Affiliation of the Union	Date of Registra- tion	Member- ship Strength
1952	Ranaghat Municipal Employees' Association	Ranaghat, (B.W.M.E.F.)	26.10.49	180
2763	Ramnagar Sugar Mills Workers' Union	P.O. Palashi (NIL)	8.4.53	1065
4751	Ranaghat Anchalik Tantubay Sramik Union (Handloom & Powerloom)	Vill. Ramnagar, P.O. Ranaghat (B.P.T.U.C.)	12.12.59	100
5417	Ranaghat Rail Bazar Panchayet	Subhash Avenue, P.O. Ranaghat (B.P.T.U.C.)	16.12.61	46
6078	Ranaghat Maha- kuma Bidi Sramik Sangha	Ghatak Bazar, P.O. Ranaghat (I.N.T.U.C.)	5.8.64	176
6912	Rehabilitation Industries Corpora- tion Ltd. Workers' Union	P.O. Taherpur Colony, (A.I.T.U.C.)	5.5.67	424
7450	Ranaghat Power- loom and Textiles Workers' Union	Subhash Avenue, P.O. Ranaghat (A.I.T.U.C.)	5.5.67	428
7878	Ruttonjee & Co. Ltd., Kalyani Brewary Workers' Union	P-12/53- Central Park East, Kalyani (A.I.T.U.C.)	26.6.68	132
8353	Ranaghat Peoples Bank Employees' Union	C/o Peoples Bank Ltd., Ranaghat (N.P.)	21.6.69	11
8527	Ranaghat Subdivisional T. B. Asso. Empolyees' Union	T. B. Clinical Bldgs. Ranaghat (N.P.)	30.8.69	38

INDUSTRIES

Regd. No.	Name of the Union	Address with Affiliation of the Union	Registra-	Member- ship Strength
6068	Sen Pandit Industries Em- ployees' Union	Industrial Block-A, Kalyani (I.N.T.U.C.)	20.7.64	163
7345	Sm. Durga Processing & Finishing Mazdoor Union	Subhash Avenue, P.O. Ranaghat	31.8.67	108
5797	Taps & Dies Ltd. Employees' Union	Chand Sarak, Krishnanagar, (I.N.T.U.C.)	20.7.63	63
7347	West Bengal Power Supply Co. Ltd. Employees' Union, Navadwip Divn.	P.O. Krishna-	31.8.67	85
8725	Nadia Cooperative Land Mortgage Bank Ltd. Employees' Association.	Mortgage Bank P.O. Krishna-	20.11.69	100

In recent years, some cases of Labour unrest were reported from the district, the causes of unrest being demands for better wages, bonus and other amenities as also protests against retrenchment of workers. The statement below gives details of the number of strikes and lock-outs in the district for the period from 1967 to 1969.1

Labour unrest

	No. of		Miscella-		Man
Year	strikes	Lock-outs	neous	Total	involved
1967	1	3	1	5	849
1968	3	4		7	1,363
1969	6	2	1	9	646

^{*} N.P.—Not affiliated to any organization.

Deputy Labour Commissiner (Statistics), West Bengal.

The statement below gives an idea of the results of work stoppages for the year 1968 and 1969.

Year		No. disposed off		No. of cases settled	
1968	458	376	82	(i) At the intervention of conciliation officer— (ii) Sent to Adjudication—	109 54
1969	488	371	117	(ii) Otherwise settled— (i) At the intervention of conciliation	213
		G		officer— (ii) Sent to Ad- judication—	203
		No.		(iii) Otherwise settled—	145

WELFARE OF INDUSTRIAL LABOUR As a part of its labour welfare programme, the Labour Directorate, West Bengal runs three Labour Welfare Centres in the district. The following statement, giving latest available details, would indicate the working of these institutions.

LABOUR WELFARE CENTRES IN NADIA DISTRICT1

Date of		No. of
Starting	Name & Location	labourers
8.2.1963	Kalyani Model Labour Welfare Centre, Industrial Housing Colony, P.O. Kalyani	9.000
1.8.1966	Palashi Labour Welfare Centre, P.O. Palashi	1,200
1.9.1969	Ranaghat Labour Welfare Centre, Dakshinpara, P.O. Ranaghat	1,100

Deputy Labour Commissioner, West Bengal. The number of labourers shown indicate those who reside in labour colonies as also those who work in different industrial establishments near the L. W. Centres.

It may be added that the Kalyani Model Labour Welfare Centre was originally opened as an ordinary Labour Welfare Centre and subsequently in 1966 it was converted into a Model Labour Centre. In recent years, film shows and sports were arranged in all the centres besides special functions held on special occasions, such as, the Independence Day and the Republic Day. At Ranaghat, there is one primary school attached to the Labour Welfare Centre with a strength of 45 students, while elsewhere the workers' children are to attend the primary schools outside the centres whenever necessary. With the increase of labour power in different industrial units in recent years, the Labour Department has opened a new Model Labour Welfare Centre at Haringhata by the end of 1971.

There is an Inspector of Minimum Wages under the control of the West Bengal Labour Directorate with headquarters at Krishnanagar who looks after the industrial establishments in Nadia as also the effective implementation of the provisions of the Minimum Wages Act.

सन्ध्रमेव जयन

¹ Government of West Bengal, Labour in West Bengal, 1972, p. 158.

CHAPTER VI

BANKING, TRADE AND COMMERCE

BANKING AND FINANCE

History of indigenous banking in the district The earliest reference to the existence of a system of banking in this region, as traceable in Kavikankan Mukundarām's Chandī mangal, a work of circa A.D. 1600, relates to the activities of a class of shroffs usually called poddars, who exchanged cowries (shells) and silver coins, the usual currency of a Bengal market. These persons acted as bankers and money-changers, and remitted money for others, from one town to another and issued letters of exchange. The Bengal District Records of the 18th century show that revenue was not paid by the Zamindars to the officers of the East India Company direct, but was collected through the agency of these shroffs. As losses owing to misappropriation by the middlemen in various ways was inherent in this system, it was abolished in 1778.

The banking house of Jagat Seth played a part so significant in the economic life of Bengal that Burke compared it with the Bank of England. The adjoining district of Murshidabad was the main centre of their activities. With huge cash in their counters they were not only the bankers and treasurers of the Nawab but also of the revenue-farmers and Zamindars. Inland traders must have also thronged their kuthis for the supply of credit, for their terms were lenient. Palashi marked the end of their prosperity and the decline of the house was very rapid after the brutal murder of its leading members at the instance of Mir Kasim. After the grant of the Dewani, this institution ceased to be the channel of revenue payment and when the treasury was transferred to Calcutta, the Seths practically ceased to act as bankers to the Company. Their sources of wealth dried up and their trade in rupees passed into the hands of the smaller shroffs.

The indigenous bankers suffered a serious set-back following the rise of agency houses and joint-stock companies at the beginning of the 19th century. But, as noticed by the Banking Enquiry Committee in 1929-30, they play an important role in the financing of agriculture, industry and trade. They usually combine banking with some form of trade, wholesale or retail.

According to the Bengal Provincial Banking Enquiry Committee the agriculturists of this district obtain their finance from (i) local mahājans (indigenous bankers), (ii) merchants dealing in special crops, (iii) landlords who have got tejārati (money-lending)

Rural in-

business, (iv) itinerant Kabulis, (v) cooperative societies where they exist and (vi) the Government under the Land Improvement Loans Act and Agriculturists' Loans Act. The first two sources played the most important part in agricultural finance since they provided 75 per cent of the agriculturists with financial help. The percentages of unsecured and secured loans in the district were usually 75 and 25 respectively. The rates of interest varied from 93 to 75 per cent, but the most common rate of interest was 37½ per cent per annum. Paddy loans carried interest varying from 40 per cent to 80 per cent. About 50 per cent of the loans were taken in kind. These were payable after the harvest and in case of failure to repay by the end of the harvest, the principal together with interest at twice the originally stipulated rate was realized in kind from the next harvest. Very often compound interest varying from 18 per cent to 37½ per cent was charged. The security generally offered comprised landed property, houses and other assets, such as ornaments, utensils, cattle, etc. In the cultivation of jute, a system (dadan) prevailed (which still persists) whereby the merchants advanced loans on condition that the produce when harvested should be sold to them at a price fixed at the time of advance. This sometimes worked without interest and sometimes at cent per cent interest according to the condition of the market at the time of sale. In some cases, the usufruct of a small area was mortgaged by the cultivator for obtaining finance for the cultivation of the remaining lands. The usual rate of interest charged by the cooperative societies was 15 per cent. The average debt of members to the rural cooperative societies rose from Rs. 61 in 1928-29 to Rs. 145 in 1969-70 and the total membership from 28.788 to 81,036 during the same period.

The General Review Report of the Rural Credit Follow-up Survey, 1956-57, published by the Reserve Bank of India provides certain interesting features about the state of indebtedness in the district of Nadia. The average size of cultivated holdings per family of all cultivators was 4 acres. But those having 11 acres as average size of holdings per family were classed as big cultivators, 7.7 acres as large cultivators, 3.3 acres as medium cultivators and 1.3 acres as small cultivators. The Report that there had been a marked increase in the proportion of indebted families in the district. The proportion rose from 20.4 to 48.1 amongst big cultivators, from 24.6 to 60.5 amongst large cultivators, from 22.7 to 56.5 amongst

medium cultivators and from 25.4 to 69.3 amongst small cultivators during the period from 1st May 1956 to 30th April 1957. All cultivators considered, the increase was from 24.1 per cent to 61.5 per cent during the same period. The Report states that the proportion of indebted families was influenced by the character of the agricultural seasons in the immediate past, which was particularly bad during the year under review. This adversely affected the small cultivators more than the bigger ones. The share of each class of cultivators in the total debt owed by cultivators at the end of the year was 13.3 per cent for big cultivators, 37.7 per cent for large cultivators, 33.8 per cent for medium cultivators and 28.5 per cent for small cultivators. The data on classification of debt according to purpose as percentage of total debt outstanding at the end of the year shows that agricultural purposes accounted for 35.4, non-farm business purposes 4.1, consumption purposes for 59.6 and other purposes 0.9. The following table gives the corresponding share of debt for the four classes of cultivators, classified according to purpose and as percentage of total debt outstanding at the end of the year in the district.

Types of Cultivators	Agricultural purposes	Non-farm business purposes	Consumption purposes	Other purposes
Big	31.5	7,2	61,3	
Large	37.7	4.6	55.2	2.4
Medium	38.1	0.9	61.0	
Small	28.6	8.2	63.2	

The debt outstanding at the end of the year among cultivators, classified according to rate of interest was as below.

DEBT BEARING SPECIFIED RATE OF INTEREST AS PERCENTAGE OF TOTAL DEBT

Nil	5% or less	to	to	91% to 121%	to	to	to	to	Above	Rate of interest not specified
12.4	33 1	17 1	0.4	1.1	•	3.0	0.8	11.3	15.0	5,8

The following table gives the proportion of debt classified according to rate of interest at the end of the year among each of the four types of cultivators.

Types of cultivators	Nil	6½% or less	61% to 121%	12½% to 25%	Above 25%	Rate of interest not specified
Big	11,6	35.3	6.2	5.0	40.1	1.8
Large	16.6	46.2	2.3	2.3	23.8	8.9
Medium	7.9	41.4	0.8	5.1	37.5	7.4
Small	12.1	66,0	1.2	1,3	19.4	

Transactions in cash or kind between private credit agencies (excluding commercial banks) and agriculturists are now regulated by the Bengal Money-lenders' Act of 1940, which requires every money-lender to obtain a licence valid for 3 years from appropriate authorities, maintain a cash-book, ledger and a receipt book and observe other relevant formalities. Under the Act, the borrower is not liable to pay any amount in respect of the principal and interest of a loan which, together with any amount already paid, exceeds twice the principal of the original loan. He is also not bound to pay simple interest exceeding 10 per cent on unsecured loans and 8 per cent on secured ones. There were 47 licensed money-lenders in the district in 1970-71.

The State Bank of India has offices at Krishnanagar opened on 2nd December 1952, Navadwip on 28th September 1955, Ranaghat on 30th December 1957, Kalyani on 18th December 1959, Shantipur on 18th December 1962, Bagula on 29th April 1970, Palashi on 22nd August 1970, Gavespur Government Colony on 24th June 1970. Tehatta on 14th November 1970 and Phulia on 25th November 1970. The United Bank of India has likewise branches at Navadwip opened on 22nd November 1942, Krishnanagar on 3rd May 1948, Shantipur on 23rd December 1957, Ranaghat on 24th December 1957, Tatla on 15th October 1969, Bethuadahari on 26th December 1969, Taherpur on 20th April 1970, Jaguli (Haringhata) on 28th January 1970, Karimpur on 5th June 1970, Majdia on 30th October 1970, Kataganj and Gokulpur Government Colony on 25th September 1970, Aranghata on 23rd December 1970, Madanpur on 30th March 1971 and Swarupganj on 30th March 1971. These two banks had deposits amounting to Rs. 676.29 lakhs on 31st December 1970 and made advances to the tune of Rs. 75.66 lakhs during 1970. Besides, the Bank of India has also branches at Kalyani and Chakdaha which were opened on 26th April 1963 and 23rd May 1968 respectively.

Joint-stock banks

The nationalization of 14 major joint-stock banks took place on 19th July 1969.

The table in Appendix A shows the volume of business undertaken by the Scheduled Commercial Banks in the district in recent years.

Prior to reorganization and subsequent re-naming as the Nadia District Central Cooperative Bank Ltd. in 1961, the district had two cooperative banks, namely, Ranaghat People's Cooperative Bank, Ranaghat, and Central Cooperative Bank, Ranaghat which were established in 1913 and 1923 respectively. These two banks were amalgamated to form the Central Cooperative bank, named above, following the scheme of reorganization under the Second Five Year Plan. The position of the Bank according to the Assistant Registrar of Cooperative Societies, Nadia, during 1967-68, 1968-69 and 1969-70 was as below.

	A BELL	1967-68	1968-69	1969-70
Number of members	4	973	898	907
Paid-up share capital (in	housand rupees)	17,36	18,33	19,40
Reserve Fund	AN-MASSISSAMO	3.70	3.98	3,98
Loans received	1 / 171.9 1	58,36	22,40	85,70
Deposits	7.01.9.3(4).3	19,79	27,92	39,39
Working capital	- AES ES	1,60,32	1,40,94	1,71,30
Loans issued	THE PARTY OF THE P	68,47	21,03	1,60,89
Loans outstanding	42 HOUSE !!	1,11,92	1,15,69	1,39,64
Profit(+)/Loss ()		(+)51	() 93	(+) 33

The district has a land mortgage bank styled as Nadia Cooperative Land Mortgage Bank Ltd. which was established on 18th October 1957. Its position according to the Assistant Registrar of Cooperative Societies, Nadia, during 1967-68, 1968-69 and 1969-70 was as follows.

		1967-68	1968-69	1969-70
Membership		1,115	1,549	1,969
Paid-up share capital (in	thousand rupees)	70	1,16	1,66
Statutory reserve	,,	8	8	11
Working capital	,,	10,74	19,40	27,63
Loans issued	,,	3,87	8,13	10,66
Loans outstanding	,,	9,87	17.07	25,51
Profit	,,	['] 8	38	29

The number of agricultural credit societies was 596 in 1967-68, 556 in 1968-69 and 614 in 1969-70. Their position, according to the Assistant Registrar of Cooperative Societies, Nadia, during the same period is indicated in the following table.

		1967-68	1968-69	1969-70
Paid-up share capital (in thousand rupees)		26,46	26,28	28,12
Loans received	,,	49,29	20,75	62,78
Deposits	11	2.13	1.16	7.35
Loans issued	71	52,63	22,40	64.01
Loans outstanding	,,	1,05,66	1.04.49	1.17.72
Profit (+)/Loss ()	**	(· ·) 1,89	(+) 1.31	.,,

Life Insurance and National Savings

The Life Insurance Corporation of India has two units in the district at present, one sub-office at Kalyani and a branch office at Krishnanagar. During 1970-71 it had a total business of Rs. 280.81 lakhs for 6,193 policies as against Rs. 215.31 lakhs for 5,313 policies in 1969-70 and Rs. 226.69 lakhs for 6.025 policies in 1968-69. In the field of National Savings, securitywise gross collection during 1970-71 was as follows: 7-year National Savings Certificate Rs. 72,04,290, Cumulative Time Deposit Scheme Rs. 4,42,615, Post Office Time Deposit Scheme Rs. 3,63,420 and Post Office 5-year Fixed Deposit Scheme Rs. 1,16,455. Net collection under the Post Office Savings Bank Account during the same year was Rs. 8,07,118. Nadia stood first in the State of West Bengal in 1970-71 regarding collection under National Savings Schemes and so got a cash reward of Rs. I lakh to be expended by the District Magistrate on some development projects.

There are eleven weavers' cooperative societies in the district of which four societies, namely, the Shantipur Kuthirpara Weavers' Society, the Shantipur Industrial Cooperative Weavers' Society, the Ranaghat Subdivisional Cooperative Weavers' Society and the Shantipur Tantu Cooperative Society deserve special mention.

The State Government renders financial assistance to cottage and small-scale industries of different categories under the Bengal State Aid to Industries Act, relevant information regarding which has been given in Chapter V. Besides, the Industrial Finance Corporation of India advanced loans amounting to Rs. 16 lakhs to M/s. Bombay Steel Rolling Mills Ltd., Kalyani during the Second Five Year Plan.

The exports from Nadia consist mainly of jute which is, however, inferior to that grown in the districts north of the Ganga. In general, Ranaghat subdivision and specially Ranaghat, Bagula and Majdia form the main assembling centres for locally produced jute. Ranaghat itself carries on a large river traffic and is one of the principal seats of commerce in the district. Next to jute come gram and pulses which are also exported outside

State assistance to industrial development

TRADE AND COMMERCE

the district. Vegetables, potatoes, wheat and barley are exported to Calcutta. Sugar and gur between them is another important item in the list of exports. A detailed list of hats and markets dealing with agricultural products is given in Appendix B.

The dolls and models of Krishnanagar -- cloves, human figures and relief work, etc. - exhibiting as they do the superb skill of the artisans, find market not only in different places of the State, but also outside the State and in foreign countries. Marketing of these products is effected in different ways, such as (a) direct purchase by customers/tourists visiting Krishnanagar, (b) procurement in lots by dealers and middlemen for sale through private emporia and normal trade channel, (c) push-sale by the manufacturers in Calcutta market and (d) sale through melās. The cloth industry of Shantipur still retains a part of its ancient glory and caters to the need of a class of sophisticated people and its products are mostly exported to different places of the State mainly through Howrah hat where wholesale business in the commodity is carried on. Besides, the handloom products of different varieties manufactured mostly by refugee weavers near Navadwip are sent to Howrah hat for marketing. Among other articles of export, mention may be made of yarn, cycle parts, plants and machinery for tea industries, steel rods and angles, railway sleepers and other allied materials and fabricated steel materials - all from Kalvani and articles made of brass and bell-metal from Navadwip.

Among imports the most important is rice and paddy from Barddhaman, coal from Barddhaman and its adjoining districts of Bihar. Salt, kerosene oil and piece-goods, etc., besides articles of luxury, are imported from Calcutta. The greater part of the trade, both import and export, is, however, with Calcutta.

The fairs and *melās* held chiefly on religious occasions and mostly in rural areas provide opportunities for sale of huge quantities of country produce. A detailed list of fairs and *melās* held in the district round the year is given in Appendix C at the end of this chapter.

There are 11 primary cooperative agricultural marketing societies in the district, of which Karimpur Thana Large-Sized Primary Agricultural Marketing Society Ltd. and Majdia Taldah Union Large-Sized Agricultural Marketing Society Ltd. deserve special mention. The position of the first one during 1967-68, 1968-69 and 1969-70 is indicated in the following table.

Fairs & melās

Cooperative Marketing

KARIMPUR THANA LARGE-SIZED PRIMARY AGRICULTURAL MARKETING SOCIETY LTD. .

	1967-68	1968-69	1969-70
No. of members	146	145	145
	Rs.	Rs.	Rs.
Share capital	21,370	21,370	21,370
Share capital paid-up			
by Government	16,200	16,200	16,200
Working capital	1,11,293	75,725	1,28,573
Value of sales	9,31,869	6,82,364	13,78,423
Profit (+)/Loss(-)	(+) 2,419	(-) 9,193	(-) 3,471

There are two wholesale consumers' cooperative societies in the district, one styled as Krishnanagar Wholesale Consumers' Cooperative Society Ltd. and the other as Navadwip Wholesale Consumers' Cooperative Society Ltd., both established in March 1964. Their position during 1967-68, 1968-69 and 1969-70 was as below.

1. KRISHNANAGAR WHOLESALE CONSUMERS' COOPERATIVE SOCIETY LTD.

	1967-68	1968-69	1969-70
No. of members	88	90	155
	Rs.	Rs.	Rs.
Share capital paid-up	2,83,450	2,83,460	2,83,970
Share capital paid-up			
by Government	2,50,000	2,50,000	2,50,000
Working capital	6,40,193	6,68,770	7,05,182
Value of sales	29,85,198	35,48,374	36,46,026
Loss	1,03,265	41,979	1,09,152

2. NAVADWIP WHOLESALE CONSUMERS' COOPERATIVE SOCIETY LTD.

	1967-68	1968-69	1969-70
No. of members	21	21	21
	Rs.	Rs.	Rs.
Share capital paid-up	1,37,200	1,37,200	1,37,200
Share capital paid-up			
by Government	1,00,000	1,00,000	1,00,000
Working capital	4.74,384	5,18,342	5,20,483
Value of sales	7,18,664	54,47,759	61,87,754
Profit (+)/Loss(-)	(+) 15,494	(-) 23,609	(-) 12,367

Prior to the introduction of metric system in the district with effect from 1st December 1961, the traditional weights and measures in vogue are indicated below.

Weights -- maund, seer, poū, chhattāk, kāchchā, tolā, siki.

Weights

(avoirdupois) — ton, hundredweight (cwt.), quarter, stone, pound, ounce, dram.

Weights

(jewellers') --- bhari, māshā, anna, rati.

Liquid

measures — gallon, quart, pint, gill.

Linear

measures -- mile, yard, foot, inch.

Land

measures — bighā, kāthā, chhattāck in common parlance but acre and decimals of an acre in Survey operations and in Land records.

Cloth

measures — Gaj, hāth, girā, anguli.

Besides, for measuring commodities like fried rice, parched rice, paddy, etc. pache equivalent to $k\bar{a}chch\bar{a}$ seer is in vogue in the district.

The old weights and measures have, however, been replaced by the metric system of weights and measures.

APPENDIX A

DEPOSITS AND ADVANCES MADE BY SCHEDULED COMMERCIAL BANKS IN NADIA DISTRICT: DECEMBER 1967—MARCH 1970

CENTRES

	Period	Kalyani	Krishnanagar	Navadwip	Ranaghat	Shantipur	Chakdaha	Jaguli	Kalyani Krishnanagar Navadwip Ranaghat Shantipur Chakdaha Jaguli Bethuadahari Tatla	Tatla	Total
₹	(A) No. of Offices:										
	December 1967	7	2	7	2	7			-	1	10
	December 1968	7	73	7	7	7	8	1	1	١	11
	September 1969	7	2	2	2	SET PROPERTY.	50	1	;	ł	10
	March 1970	4	7	7	2			-		-	13
$\widehat{\mathbf{g}}$	(B) Deposits (Rs. '000)			व							
	December 1967	55,57	1,58,65	90,87	1,08,12	36,01	と	1	ı	1	4,45,2
	December 1968	65,93	1,39,84	1,10,57	1,18,28	42,54	8,41	1	1	1	4,85,57
	September 1969	88,00	1,70,00	1,00,92	1,17,00	32,00	10,00	l	1	i	5,10,92
	March 1970	53,32	1,76,09	1,00,31	1,27,82	52,57	13,00	1,01	ļ	1	5,24,12
<u> </u>	(C) Advances (Rs. '000)										
	December 1967	12,74	2,40	79	4,83	1,19		1	i	}	
	December 1968	12,60	3,72	79	5,37	1,79	ļ	1	1	1	
	September 1969	13,80	3,45	1,25	10,57	1,39	}	I	1	1	
	March 1970	16,49	10,27	1,31	13,25	2,85	1,00	7	i	31	

APPENDIX B

MARKETS IN NADIA DISTRICT

Name OI "A." Class CHAKDAHA P.S.	Year of origin	Days of sitting	Principal agricultural commodities handled	Mainly wholesale or retail	Daily average attendance
		Sunday, Wednesday & Friday	Vegetables and potato	Wholesale and retail	3,200 to 5,500
Mira (Palashi) assembling centre	1803	Daily	Jute, paddy, oilseeds & pulses	Wholesale	105 to 220
Karimpur assembling centre	1928	Tuesday & Saturday	Jute, pulses & oilseeds		500 to 1,000

KOT WALL P.S.

Goari assembling: centre	1880	Daily	Rice, pulses, vegetables & fruits	Wholesale & retail	1,200
NAKASIPARA P.S.					
Bethuadahari assembling centre	1913	Daily	Jute, rice, paddy & pulses	Wholesale- cum-retail	200 to 300
RANAGHAT P.S.					
Ranaghat barabazar	1803	Daily	Rice, potato, vegetables, eggs,	r	2,000 to
SHANTIPUR P.S.		सन	fish, onion & pulses		3,000
Shantipur barabazar	1845	Daily Daily	Paddy, rice, jute, pulses, vegetables & seasonal fruits	Wholesale & retail	2,000
"B" Class		1	like mangoes		
CHAKDAHA P.S.					
Chakdaba market	1943	Daily	All kinds of vegetables		1,000
HARINGHATA P.S.					
Haringhata <i>hat</i>	1840	Wednesday & Saturday	Jute, rice, potato, vegetables, pulses & date-eur	£	1,200 to 2,050

APPENDIX B (Contd.)

C" Class

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APPENDIX B (Contd.)

Mainly Daily wholesale average or retail attendance	Retail 600	1,100	1,200	008	1,600	1,400
Principal agricultural commodities handled	All sorts of agricultural	products & fish			Vegetables, pulses & rice	Vegetables &
Days of sitting	Monday & Fridav	Tuesday & Saturday	Wednesday & Saturday	Sunday & Wednesday	Monday	Sunday &
Year of origin	.) 1949	1950	1950	1953	1857	1907
Name o	СНАКDАНА Р.S. (сопіd.) Gayespur market 1949	Bishnupur <i>hat</i>	Rasullapur	Hingnara hat	снарва р.s. Bangaljhi <i>hat</i>	Bara Andulia hat 1907

Bhimpur hat	1951	Monday			300
Chapra hat	1850	Friday	Vegetables, pulses & rice	£	300 to 500
Bagmara <i>hat</i>	1900	Saturday	Vegetables & pulses	â	150
Simulia hat	1942	Sunday & Wednesday	\$	2	300
Daily bazar	1951	Sunday & Thursday		:	300
Hridaypur hat	1947	Friday		;	300
INSKHALI P.S.	ļ	पते ।	Dulses rice naddy.	•	3,000
Badkulla bazar	1877	Tuesday & Saturday	jute & vegetables	:	
Chitrasali hai	1949	Sunday & Tuesday	Pulses, rice, paddy & vegetables	.	008
Bairabpur <i>hat</i>	1954	Tuesday & Friday	,	÷	300
Hanskhali bazar	1857	Monday & Friday	Pulses, rice, paddy, jute & vegetables	:	3,000

APPENDIX B (Contd.)

Мате	Year of origin	Days of sitting	Principal agriculural commodities handled	Mainly wholesale or retail	Daily average attendance
HANSKHALI P.S. (contd.)	ntd.)				
Par-Hans k hali <i>hat</i>	1952	Friday	Pulses, rice, paddy, & vegetables	Retail	200
Ramnagar <i>ha</i> i	1932	Tuesday	Pulses, rice & vegetables	*	200
Fatepur hat	1950	Thursday & Saturday	Pulses, rice & paddy		200
Hanskhali <i>hot</i>	1857	Monday	Gur, jute, rice & pulses	6	1,000
Mamjoani hat	1937	Monday & Thursday	Vegetables	6	250
Bagula <i>ha</i> t	1887	Sunday & Wednesday	Pulses, jute, vegetables & rice	Wholesale & retail	2,000
Bagula bazar	1887	Daily	Fish, vegetables & rice	Retail	150

APPENDIX B (Contd.)

Name	Year of origin	Days of sitting	Principal agricultural commodities handled	Mainly wholesale or retail	Daily average attendance
KALIGANJ P.S.					r
Devagram hat	1830	Sunday & Thursday	Vegetables, pulses & rice	Retail	700 to 1,000
Kaliganj <i>hat</i>	1850	Monday & Friday		:	009
KARIMPUR P.S.		व न			
Shikarpur <i>hat</i>	1940	Monday & Thursday	Vegetables & pulses	2	200
Hogalbaria hat	1850	Tuesday & Saturday	:	6	800 to 1,200
KRISHNAGANJ P.S.		-			
Mazdia Rail bazar	1825	Tuesday, Thursday & Saturday	Potato, vegetables, rice & pulses	\$	300
Sibnibash hat	1922	Monday & Friday	Vegetables & pulses	\$	009

800	250	1,000	009	300	200	300		300	300 to 400	200 to 300	400 to 500
*			2	,	6		:	\$	ŧ	ž	:
x	ŝ	Vegetables & pulses					3	•	Vegetables, pulses, poultry & rice	Vegetables & pulses	Vegetables, pulses
Wednesday & Saturday	Daily	Sunday & Wednesday	Tuesday & Saturday	Daily	Monday & Thursday	न्यते नयते	Tuesday & Saturday	t	Daily		*
1850	1890	1836	1950	0061	1900		1927	1880	1938	1930	1700
Khalbowalia hat 1850	Krishnaganj	market Majdia <i>ha</i> t	Matiari hat	Banpur market	Bhajanghat <i>hat</i>	KRISHNANAGAR P.S.	Shyamnagar <i>hat</i>	Chandannagar	<i>hat</i> Patra market	Ghurni market	Nutan Bazar

APPENDIX B (Contd.)

Name	Year of origin	Days of sitting	Principal agricultural commodities handled	Mainly wholesale or retail	Daily average attendance
KRISHNANAGAR P.S. (contd.)	(contd.)				
Assannagar	1950	Sunday & Thursday	Vegetables, pulses & rice	Retail	1,200
Bhaluka hat	1942	Friday		2	200
NAVADWIP P.S.		यमेव			
Navadwip market 1750	ı 1750	Daily E	Rice, vegetables & poultry	ŗ	4,000
Swarupganj market	1947	•	Vegetables & pulses	66	300
Bamanpukur market	1920	£	ŧ	r.	150
Maheshganj hat	1937	Tuesday, Thursday & Saturday	2		800
Deorapara potato 1927 assembling centre	1927	Daily	Potato, vegetables, rice & pulses	2	200

NAKASIPARA P.S.

1902 Daily Vegetables & pulses ,, 400	1880 " 500	1800 " 250	1950 Tuesday & " 250 Saturday	1915 Saturday ", 250	1880 Sunday 200	र जय	1653 Sunday & Jute, pulses, gur, " 1,200 Wednesday rice & vegetables	1928 Monday & Rice & vegetables ,, 300 Thursday	Monday,	I nursday & rice Saturday
						ৰ স্থ	1653 Sunday & Wednesday		1887 Monday, Thursday &	Saturday
Muragachha market	Mitiari Bazar	Dharmada market 1800	Birpur hat	Bikrampur hat	Gotepara hat	RANAGHAT P.S.	Gangnapur <i>hat</i>	Erulia <i>hat</i>	Duttaphulia hat	

APPENDIX B (Contd.)

Daily average attendance		2.200	2,500	008	009	125	200
Mainly wholesale or retail		Retail	:	ŗ	*	6	;
Principal agricultural commodities handled		Jute, pulses, paddy, rice & vegetables	Rice, potato, dal, vegetables, eggs & fish	Vegetables & cattle	Rice & vegetables	Vegetables, fish & rice	Rice, pulses. vegetables & fish
Days of sitting		Tuesday. Thursday & Saturday	स्थापन जय	Monday & Friday	Daily	ž.	Monday & Friday
Year of origin	d.)	1900	1807	1949	1921	1887	1950
Name	RANAGHAT P.S. (contd.)	Aranghata <i>hat</i>	Ranagh a t Railway bazar	Birnagar hat	Taherpur bazar	Habibpur bazar	Bahirgachhi hat

200	350	1,000	350	150	100	2,500 to 5,000		800 to 1,000	250	300	350
•	£	ę,	2	ć	\$	Whoesale & retail		£	6	\$	•
	Pulses, jute, linseed & gram, etc.	Pulses, jute, linseed. gram & vegetables	Vegetables & rice	Vegetables	Vegetables & rice	Vegetables. sweets, potato, rice, paddy, poultry, bird & goat		Vegetables & pulses	£	**	66
Daily	r	Daily	Daily except Thursday & Saturday	Daily evening	Daily	Sunday & Tuesday		Wednesday & Saturday	Daily	Friday	Monday &
1882	1954	1952	1890	1937	1951	1890		1752	1902	1880	1947
Birnagar bazar	r P.S. ghapur	maiket Phulia Rail bazar	Nutanbazar	Sarabhuja market 1937	Phulia colony	Nutan <i>hat</i>	TEHATTA P.S.	Tehatta hat	Palashipara market	Barunia hat	Betai

APPENDIX B (Contd.)

Name	Year of origin	Days of sitting	Principal agricultural commodities handled	Mainly wholesale or retail	Daily average attendance
TEHATTA P.S. (contd.)					
Nazirpur <i>hat</i>	1937	Wednesday	Vegetables & pulses	Retail	350
Palsunda hat	1938	यमेव •		:	250
Karaigachhi	1945	नयने		:	350
Haspukuria <i>hat</i>	1902	Monday	î,	:	350
Baliwara <i>hat</i>	1935	Saturday	ŧ		250
Baliwara Nutan bazar	1952	Tuesday		•	200
Kutipara Kachhari <i>hat</i>	1951	Wednesday		:	250

APPENDIX C

FAIRS AND MELAS IN NADIA DISTRICT

	Month of occurrence	rrence	Religious		
Place of	English Calendar	Bengali Calendar	or other	Duration No. of davs	Attendance (Approx.)
CHAKDAHA P.S.					
Gangaprasadpur	January-February	Magh	Ganes Janam Puja	30	N.A.
Chakdaha (Town)	\mathbf{D}_0	Do	Do	15	N.A.
Dο	February-March	Magh-Fālgun	Maghi-Purnima	5	1,000
Jasra	June-July	Jyaishtha-Ashad	Rathayatra		3,000
Chanduria	January-February	Magh-Fālgun	Maghi-Purnima	33	1,000
Kaliganj	Do	Magh	Rāj-Rājeśwarī Puja	7	2,000 to
		中			3,000
Do	February-March	Magh-Fālgun	Maghi-Purnima	æ	4,000
Chandmari	January-February	Magh	Gāji Sāheb's Melā	_	2,500 to
)			3,000
Kulia	March-April	Falgun-Chaitra	Dolyatra	_	3,000
Sripatkulia	Z.A.	N.A.	The death anniversary	N.A.	N.A.
			of Debananda Thakur		
Ghoragachha	February-March	Fālgun	Ghorā Pīr's Melā	1/9	3,000 to
					4,000
Kumarpur	Do	Do	Barapir's Utsav		N.A.
Madanpur	March	Do	Dolyatra		2,000
Simurali	March-April	Fālgun-Chaitra	Śivaratri	7	200
Bejpara	March	Fālgun	Dolyatra	-	250
Belgaria	N.A.	N.A.	Manik Pir's Melā	1	200

APPENDIN C (Contd.)

	Month of occurrence	ę	Religious		
Place of	English		or other	Duration	Attendance
occurrence	Calendar	Calendar	occasion	No. of days	(Approx.)
CHAKDAHA P.S. (contd.)	(;				
Ghetugachhi	December	Agrahayan	Dharmaraj Puja	5	5,000
Gotera	Do	Do Do	Do	7	2,000
Sibour	March	Fālgun	Madar Pir's Utsav	က	1,000
Mathurgachi	July-August	Śravan	Khedai Baba's Utsav		50,000
, 0	August	. Do	Manasa Puja	1	000'09
Neulia	June-July	Ashad	Rathayatra	2	3,000 to
	•	FI			4,000
Chakudanga	August	Śravan	Manasa Puja	N.A.	N.A.
Srinagar	N.A.	N.A.	Gazi Pir's Dargah	1	850
Rajar-math	September-October	Aświn	Durga Puja	N.A.	N.A.
Ghoshpara	March-April	Fālgun-Chaitra	Dolyatra	10	50,000
D ₀	March	Do	Satima Utsav	2/8	N.A.
Kuliarpat	December-January	Poush	Kuliarpat	3	25,000
Khedaitala	August	śravan	Manasa Puja	_	2,000
Surendraganj	February-March	Fālgun	Maghi-Purņima	m	4,000
CHAPRA P.S.					
Hatisala	October-November	Kartik	Rasyatra	4	200
Kalvandaha	April	Chaitra	Nil Puja		200
Jalkar-Mathurapur	May-June	Jyaishtha	Manasa Puja	_	200
D ₀	March-April	Chaitra	śiv Puja	7	200

Mahespur	September-October	Aswin	Durga Puja	_	200
Daiyer Bazar	June-July	Ashai	The death anniversary of Adhikaribaba		200
HANSKHALI P.S.					
Mayurhat	January	Poush-Magh	Local Muslim religious	ю	15,000
Dakshinpara	March	Fālgun	Dolyatra	4	1,000
Patuli	January	Magh	Buri Kali Puja	N.A.	1,000
Badkulla	November-December	Agrahayan	Mahotsav		N.A.
Hanskhali	June	Ashad	Rathayatra	,,,,,	2,000
Ber-Hanskhali	April	Chaitra-Baisakh	Local religious	_	1,000
Mamjoani	<u>۵</u> ,	Do	Chadak Puja (Siv Puja)	_	1,000
Aranghata	May-June	Jvaish! ha	Jugalkisore Deb's Puja	. 30	N.A.
RINGHATA P.S.		ではいい	\$ 1500 State		
Birahi	October-November	Kartik	Bhratridwitiya	1	15,000
Do	March-April	Fālgun-Chaitra	Dolyatra	r-mi	5,000
Mahadevpur	June-July	A shad	Rathayatra	_	2,000
Haringhata	June-July	Ashad	Rathayatra	, -	3,000
Uttar-Rajapur	April-May	Baisakh	Fatema Utsav	8	009
Jahirapara	N.A.	N.A.	Gadi <i>Melā</i>		200
Do D	N.A.	N.A.	Khoda's Melā	-	200
Do	N.A.	N.A.	Josta Behari Melã	—	200
Kathdanga	January-February	Magh	Manik Pir's Utsav	7	400
Barajaguli	N.A.	N.A.	Panchanantala Melā	N.A.	400
Fatepur	April	Chaitra-Baisakh	Goshthayatra		2,000
Haripukharia	, °Q	Do	Rabi Puja	-	200
Karamchabelia	February	Magh-Fálgun	Bara Pir's Utsav	8	3,000
Manicktala	January	Magh	Manick Pir's Utsav		5,000
Nagar-Ukhra	April	Chaitra	Barwari Kali Puja	 i	2,000
Mohanpur	March-April	ρ°	Sivaratri	,	1,500

APPENDIX C (Contd.)

	Month of occurrence	irrence	Religious		
Place of	English	Bengali	or other	Duration	Attendance
occurrence	Calendar	Calendar	occasion	No. of days	(Approx.)
ALIGANI P.S.					
Palashi	May-June	Jyaishiha	Snanyatra		1,000
Karimmir-Bazar	July	Ashad	Rathayatra	2	009
Hatoachha	June-July	Do	Ď		2,000 to
nui President					3,000
Thanapara	January	Poush	Poush Samkranti	3	15,000
Hatgachha	N.A.	N.A.	Muharram		2,000
Inrannur		中人となる。中			
Kalitala	February-March	Magh-Fālgun	Maghi-Purnima	_	10,000
Mirritia	June	Jyaishtha-Ashad	Dasahara Gangasnan	7	3,500
Matiari	April	Chaitra	Ram Navami	6/7	5,000
Kamdehnir	March-April	Do	Gajan Festival	N.A.	N.A.
Rahitranit	Mav-June	Jvaishtha	Snanyatra		2,000
Bara-Chandohar	April-May	Baisakh	Yasodayini Puja	N.A.	500 to
The Comment of the Co					1,000
Do	June-July	Ashad	Rathayatra	N.A.	N.A.
<u> </u>	September-October	Aswin	Durga Puja	N.A.	N.A.
ద ద	October-November	Kartik	Rasyatra	N.A.	N.A.
i 2	March	Fālgun	Dolyatra	N.A.	N.A.
ãã	March-April	Chaitra	Harithakur's Utsav	33	3,000 to
à	7				4,000
Fulkhali	May	Baisakh	Baruni Snan		300
Sikarpur	March-April	Chaitra	Basanti Puja	ĸ	009

P.S.	
KARIMPUR	

11 1,000	4 X.A.	8 500		7/8 N.A.		7 10,000	15 1,000	7 5,000	7 2,000	3 200			1 1,200	7 11,000	15 25,000	1 15,000	1 500 to	009		7 5.	7 5.	7 5.	7 5	7 5	7 55	7 7 1 1 5	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 5.
Ram Navami	Basanti Puja	Rathayatra	Poush Parvan	Pir's Barga	Poush Samkranti	Jangi Pir's Utsav	Rathayatra	Basanti Puja	Baruni Snan	Dolyatra	The state of the s		Do	Do	Bhim Ekadaśi	Durga Puja	Chadak Puja		TA (C.D.: 4L.	worship of a Fig of the	worsmp or a Fir or in occasion of Ambubachi	worsing of a rar of the occasion of Ambubachi Chadak Puja	worsnip of a Fri of the occasion of Ambubachi Chadak Puja Ambubachi	worsnip of a Fig. of the occasion of Ambubachi Chadak Puja Ambubachi	worsnip of a Fig. of the occasion of Ambubachi Chadak Puja Ambubachi	worship of a Fig. of the occasion of Ambubachi Chadak Puja Ambubachi	worship of a Fig. of the occasion of Ambubachi Ambubachi	worsing of a Fir of the occasion of Ambubachi Chadak Puja Ambubachi Durga Puja
Do	Do	Ashad	Poush	Baisakh	Poush	Do	Ashad	Chaitra	Do	Fâlgun		भे भेव	Do	Do	Poush-Magh	Aświn	Chaitra		Ashad	5	ş.	Chaitra	Chaitra Ashad	Chaitra Ashad	Chaitra Ashad	Chaitra Ashad	Chaitra A shad	Chaitra Ashad Aswin
April	ρo	July	January	April-May	January	Do Q	June-July	March-April	6	March			õ	ದಿ	January	September-October	April	٠.	June			April	April June	April June	April June	April June	April June	April June September-October
Dhoradaha	Karimpur	Karimpur - Bazar	Sobharajpur	: 6	Thanapara	່ດ	Murutia	Shikarpur	Fulkhali	Sundalpur		KRISHNAGANJ P.S.	Digambarpur	Chandannagar	Sivnivas	Krishnagani	Malighata)	Matiari			Tungi	Tungi Khat ura	Tungi Khatura	Tungi Khatura	Tungi Khat ura	Tungi Khatura	Tungi Khatura Nanasani

APPENDIX C (Contd.)

	Month of occurrence	irrence	Religious		
Place of	English	Bengali	or other	Duration	Attendance
occurrence	Calendar	Calendar	occasion	No. of days	(Approx.)
KRISHNANAGAR P.S.					
.c. T. Woodward	,	j		,	
Belpukur	March	Fālgun	Ganes Puja	S	2,000
Sonadanga	N.A.	N.A.	Muharram	_	1,000
Chuakhali	April	Chaitra	Chadak Puja	Z.A.	500 to
	•				700
Rupdaha	April-May	Baisakh	Kali (Rupai) Puja		2,000
Do	September-October	Aswin	Durga Puja	N.A.	Z.A.
Ω°	November-December Agrahayan	Agrahayan	Jagaddhatri Puja	N.A.	N.A.
Do	March-April	Chaitra	Gajan Festival	N.A.	N.A.
Subarnavihar	o Do	Do	Do	Z.A.	N.A.
Harispur	January-February	Magh	Panchananda Puja	٣	500 to
1	•				909
Depara	April-May	Baiśakh	Nrisimba Puja		1,000
Bhaluka	June-July	Ashad	Rathayatra	1	300 to
	•				400
Anandabas	May-June	Jyaishtha	Dasahara Snan	grane()	2,000 to
	•				3,000
Do	January	Magh	Uttarayan	7	2,000 to
	•	ò	•		3,000
Krishnanagar (Town)	March-April	Fālgun-Chaitra	Baradol	30	1 lakh
Ghurni	April	Chaitra	Chadak (Petnipukur's Melā)	N.A.	N.A.
			/		

Ď	N.A.	N.A.	Dharma Thakur Puja	N.A.	N.A.
Asannagar	June-July	Ashaḍ	Ambubachi	ю	1,000
Do	March	Fālgun	Dolyatra	Z.A.	N.A.
Do	December-January	Poush	Agricultural Fair	7	10,000
NAVADWIP P.S.					
Ballaldighi	March	Fālgun	śrī śrī Chaitanya	15	12,000
•			Mahaprabhu's Utsav		
Majdia	April	Chaitra	Chadak Puja	 4	1,000
Navadwip (Town)	November	Kartik	Rasyatra	7	2,000
Teghari (Kalinagar) January	January	Magh	Uttarayan (Gangasnan)		10,000
Sree Mayapur	March	Fālgun	Parikrama Melā	ю	2,000
Majherchara	February	Magh-Fālgun	Religious	11	1,000
Hulorghat	February-March	Fālgun-Chaitra	Dolyatra	7	1,000
NAKASIPARA P.S.		व ज			
Akandanga	N.A.	N.A.	Muharram	7	3,000
Brahmanitala	July-August	Śravan	Brahmani Puja	7	5,000
Gotpara	June	Jyaishiha	Gopinath Snanyatra	7	15,000
Brahmanitala	July-August	Śravan	Manasa Puja	7	4,000 to
	•				5,000
Karkaria	June	Jyaishiha	Dasahara	₽~(400
Bhebuadanga	January	Magh	Snanyatra	⊷ ≺	1,000
Nangla	June-July	Ashad	Sahebdhani Goshthir	7	1,500
			Utsav		
Do	January-February	Magh	Maghi-Purnima	Ż.Ż.	Z.A.
Raripara	June-July	Ashad	On the occasion of the	e 1	2,000
			birthday of Katatu		

APPENDIX C (Contd.)

	Month of occurrence	ırrence	Keligions		
Place of	English	Bengali	or other	Duration	Attendance
occurrence	Calendar	Calendar	occasion	No. of days	(Approx.)
nakasipara p.s. (contd.)					
Dhananjaypur	N.A.	N.A.	Muharram	-	2,000
Dogachhia	April	Chaitra	Chadak Puja	-	5,000
Muragachha	April-May	Baiśakh	Jater Melā (Sarvamangala)	nigala) 7	2,000 to
					2,500
Bhebadanga	December-January	Poush	Uttarayan		3,000 to
		おりませ	~ LCC		4,000
Sahebtola	June	Jyaishtha	Sabebtola Melā		2,000
Dhanchipur	N.A.	N.A.	Muharram	-	1,000
RANAGHAT P.S.		12			
Taherpur (F Block)	September-October	Aświn	Durga Puja	-	10,000
Birnagar (Ula)		Baisakh	Ulai Chandi Puja	4	10,000
Mugrail	September-October	Aświn	Durga Puja	8	200
Bahirgachhi	ρ°	Do	Durga Puja	2/3	1,500
Aranghata-	May-June	Jyaishtha	Jugal Kisore Puja	30	5,000
Narayanpur					
Srirampur	April	Chaitra	Chadak Puja	N.A.	Z.A.
Aismali	October-November	Kartik	Rasyatra	\$	2,000
Ghola	Do	Aswin-Kartik	Durga Puja	N.A.	200
Habibpur	March	Fālgun	Dolyatra		N.A.
Do	Ω°	Do	Panchamdol	-	N.A.
č	January-February	Mash	Avala Prid		7

Do	March	Fālgun	šitala <i>Puja</i>	1	N.A.
o Q	January	Magh	Netaji's Birthday	30	N.A.
Majdia	January-February	Do	Gora Saheb	-	1,500
			Pir's Abirbhav		
Patuli	March-April	Fālgun	Maghi-Purnima	7	10,000
Kamargaria	July-August	Śravan	Pir's Abirbhav Utsav	_	1,000
SHANTIPUR P.S.					
Panpara	January	Magh	Uttarayan Snanyatra	-	1,200
Bagdebitala	February	Fālgun	Bagdevi Pula		1,000
රි	May	Baiśakh	Baiśakhi-Purnima	_	200
Babla	March	Fälgun	Dolyatra	C-I	1 lakh
Phulia	Do	Do	Do	-	3,000
Arbandi	Do	Do	Brahma Puja	۲.	5,000
Santipur (Town)	July	Ashad	Rathayatra	7	15,000
õ	August	Śravan	Jhulanyatra	m	15,000
Do	September-October	Aswin	Durga Puja	-	10,000
Dο	October-November	Kartik	Kali Puja		2,000
Do	Do	Do	Jagaddhatri Puja	7	20,000
Ω°	November	Do	Rasyatra	99	000'09
ρ°	February	Magh-Fālgun	Saraswati Puja	_	12,000
ρo	March-April	Fālgun-Chaitra	Dolyatra	_	5,000
ρo	May	Baiśakh	Gazi's Marriage		1.000
ρ°	April	Chaitra	Chadak Puja	N.A.	Z.A.
Do	August	Śravan	Brahma Puja	N.A.	N.A.
TEHATTA P.S.					1
Ваог	January	Poush	Poush Parvan	_	1,000
Ilshamari	September-October	Aświn-Kartik	Immersion of	7	10,000
			Goddess Durga		
Tehatta	January-February	Magh	Krishnaganj Jin Puja	30	1,000

CHAPTER VII

COMMUNICATIONS

OLD TIME TRADE ROUTES AND HIGH-WAYS AND MODES OF CONVEYANCE

Though there is no historical evidence, trade routes in Nadia district, if any in old times, must have been the inland waterways leading to the famous ports of Gange or Tamralipta. Though both these ports were outside the present limits of Nadia district, it is likely that Nadia formed their hinterland served by mighty delta building rivers. The high antiquity of Bengal's inland and foreign trade is proved by the Jātaka stories. the accounts of Strabo and Pliny, and the Periplus of the Erythraean Sea. The Periplus proves that Bengal maintained an active overseas trade with South India and Ceylon in the first century A.D. The commodities exported through the royal city of Gange are said to have consisted of malabathrum, Gangetic spikenard, pearls and muslins of the finest sort. They were carried in vessels described in the Periplus as 'Colandia'. The Gangetic spikenard is actually a perennial herb of alpine Himalayas. It is better known as Nardostachys Jatamansi and is used in Kavirājī pharmacopoeia. Malabathrum or Cinnamonum² also came from the Himalayas. Malabathrum and spikenard were the two most treasured ingredients of the ointments and perfumes of the Roman empire.3 As there was a direct river route from the Himalayas to the port of Gange it may be presumed that the spikenard and malabathrum came by this river route. The Periplus further states that raw silk, silk varn and silk cloth came into Bengal from China through Sikkim and Chumbi valley and re-exported to 'Damirica by way of the river Ganges'.4 In later centuries the overseas trade of Bengal seems to have increased both in volume and extent which accounts for the phenomenal growth of Tamralipta.

Almost to the end of the Hindu period Tamralipta was the gateway to eastern India. With the decline of Gange and

1 The Periplus of the Erythraean Sea, ed. W. H. Schoff, Philadelphia, 1912, pp. 46-47.

4 Ibid., p. 48.

² It appears that tejpātā (Cinnamonum Tamala), dālchini (Cinnamonum zeylanicum) as well as karpūr (Cinnamonum Camphora) were exported.

Periplus is very clear on their Himalayan origin. Malabathrum was brought to Bengal every year by 'a tribe of men with short bodies and broad flat faces'. There is also mention of three sorts of malabathrum, ibid., pp. 48-49.

The Periplus, pp. 216-17.

Tāmralipta, Saptagrāma became dominant till the close of the sixteenth century. During all this period we find no historical evidence of any land-route through Nadia district. The 1918-20 Reports of Survey and Settlement Operations in the district of Nadia mentions the existence of a road in Haringhata P.S. which was constructed for the passage of Man Singh's army in the campaign against Pratapaditya.

On an examination of the account of Rev. Long, we find that at the close of the 18th century one Mr. Baretto made many roads planted with nim trees on both sides at Sukh Sagar which was the Government country seat before Barrackpur. Chagda (that is, Chākdaha) near Sukh Sagar, provided a route to Dacca and Assam via Jessore. People travelling from Calcutta preferred this road as it was better and higher than that via Barasat. A 20-mile long road was built from Bongaon to Chakdaha and planted with trees on both sides by Kali Prasad Padar of Jessore. He also built a number of bridges (over the Bhairav at Nilgunge for instance) and the Government of Bengal presented him with the title of 'Ray' for his public spirit. The Mathabhanga lying north of Chakdaha had already deteriorated in Long's time and its banks were infested by thieves and tigers. A survey was made of it in 1795 by Colonel Celebrooke as the Government wished to keep this trade channel between East Bengal (now Bangladesh) and Calcutta open all the year round. Again in 1836, Mr. May, the Superintendent of the Nadia rivers, was engaged in surveying the line of a proposed still-water canal from Shantipur to Mangra on the Nabaganga river (in Bangladesh), which if cut, would have afforded a certain communication with the great river at all times of the year. Probably up to the 17th century, Kalna was on the left bank of the Bhagirathi, that is, within Krishnanagar. Mirzapur khāl lying north of Kalna was designed to be the terminus of a canal from Rajmahal. The Military Board in 1844 recommended that as no permanent improvement could be made in the shifting channels of the Nadia rivers, this route to Rajmahal, 130 miles long, 50' broad and 5' deep be canalized at a cost of Rs. 38,47,437. It would have cut down the distance from Calcutta to Rajmahal by 326 miles and would have yielded a profit of 14½ per cent. The expenditure on it could easily be met as the Government then had a surplus of 32:35.950 rupees from the tolls on the Bhagirathi, Circular and Tolly's canals and the Nadia rivers.

The Shantipur-Krishnanagar road, occupying a high riparian tract, is an old road. In 1845, a grant of Rs. 20,000 was made by the Government for its repair. In 1865, there were three important trunk routes. One led from Krishnanagar to Baharampur via Bamundanga, Palashi and Burwa with a ferry crossing on the Jalangi. Its total length was 53 miles 5 furlongs and was a fair road in dry weather. Another fair weather road, about 54 miles long ran from Krishnanagar to Jessore via Asanagar, Kishengunge, Jibannagar, Maheshpur and Chowgatcha with a ferry crossing over the Mathabhanga. The third route from Krishnanagar to Suri, ran through Dhubnia, Bamundanga, Debagram, Kātoyā and Kandra with ferry crossings over the Jalangi, Bhagirathi and Ajay rivers.

Although navigability of the Nadia rivers deteriorated from the 16th century, they continued, till the opening up of the railways, to be the main artery of communication between Calcutta and upper India. The waterways were largely used by steamer traffic with the upper Ganges and even with Assam via Goalundo, the saving in distance, as compared with the Sundarbans' route, being very considerable. Since 1915, service by the larger Inland Steam Companies were abandoned. This was not solely due to greater difficulties of navigation. Railway competition for transport to the upper Ganges districts was found too strong for the Steamer Companies, and at the same time increasing trade with Barisal district served to divert the remaining traffic into the Sundarbans route.

In 1910, of the regular steamer services on the Bhagirathi, Messrs. Hoare Miller & Co. ran a daily service between Calcutta and Kalna, stopping at Shantipur; another between Kalna and Murshidabad, calling at Navadwip on every alternate day during the rainy season and during the dry season from Kalna to Navadwip twice a week. The imports into and the exports from Nadia district by the rivers in 1908-09 were 3,88,049 and 33,105 maunds of goods respectively. The chief

¹ Major F. Roberts, Routes in the Bengal Presidency, Calcutta, 1865. Probably convicts were used as labourers in the construction of these roads. According to Long, in 1836 the Rājāh of Kewgang in Birbhum offered to make pakka road from Suri to Kātoyā, a distance of forty miles, provided he be allowed the service of convicts on the road. Earlier in 1802 the Judge of Barddhaman remarked: "Commerce has been much extended by the opening of three grand roads leading to Hughly, Kalna and Katwa which have been lately put into a state of repair by the labour of convicts," (vide 'Selections from Rev. James Long', ed. Mahadevprasad Saha in Indian Studies Past & Present, Vol. 1X, No. 1, Oct.-Dec., Calcutta, 1967, pp. 36-37.

items among the imports were paddy 3,00,695 maunds; rice 69,263 maunds; and coke and coal 14,723 maunds. The only other article of which 1,000 maunds or over was imported by river was unmanufactured tobacco, the import of which was Among exports by river the chief items were 1,343 maunds. raw jute 12,751 maunds; gram and pulses 7,330 maunds; and gur (jaggery) 2,781 maunds. Kerosene oil amounting to 6,302 maunds also appears among the exports, but is not, of course, a true export of the district. It may be noted that at the beginning of the present century the Eastern Bengal State Railway became the main external trade route of the district. Garrett observed, "During the last two years the average export of jute has been close to one million maunds per annum, in addition to which some twenty thousand maunds of gunny bags were exported. About three-quarters of this large export is carried away by railway and the rest by water." Since the development of railway communications, the greater part of the trade, both import and export, has been with Calcutta. Before partition, a large amount of rice and paddy was imported into the district by carts from Jessore and Khulna.

By the close of the 19th century both the subdivisional headquarters, namely, Ranaghat and Krishnanagar became significant nodal points. Ranaghat became an important junction of the Eastern Bengal Railway. Krishnanagar, though less important as a railway junction, had a little edge over Ranaghat as headquarters of the Nadia Postal Division and with a system of roads connecting it with Bagula on the east, Navadwip on the west, Shantipur on the south and a few second class roads leading to north and north-west.

Just before World War II the road system of Nadia District comprised an approximate total length of 6,996 miles for the upkeep of which several authorities were responsible.³

The total length of metalled and unmetalled roads in prepartition Nadia was 6,996 miles (11,193.6 km.) of which village roads alone accounted for 4,700 miles (7,520.0 km.). This may be compared with the road system maintained by public authorities in truncated Nadia district on 31st December 1948.4

4 A. Mitra, op. cit., p. 164.

ROAD TRANSPORT

¹ J. H. E. Garrett, Bengal District Gazetteers: Nadia, Calcutta, 1910,

p. 99.

2 Ibid., pp. 95-96.

3 A. J. King. Comprehensive Report on Road Development Projects in Bengal, Vol. III, Presidency Division, Nadia District, Alipore, 1938,

Authority responsible for upkeep	Metalled roads (miles)	Unmetalled roads (miles)
Works and Buildings		
Department	48.9	48.3
District Board	26.6	974.9
Municipalities	78.4	155.8
Total	153.9	1,179.0

Figures of Union Boards are not shown in the above statement. Some new roads were made during the war, for instance, those at Kalyani. However, of the 218 miles (348.8 km.) of metalled roads of the undivided district, the major share fell within Indian territory. King had proposed 415 miles (664.0 km.) of improved roads which included 108 miles (172.8 km.) of metalled and 241 miles (385.6 km.) of unmetalled roads then existing and only 66 miles (105.6 km.) of entirely new roads, The scheme provided 1 mile of road for every 6.9 square miles of area, or in respect of every 3,686 heads of population.¹ King submitted his complete report to the Government early in 1939. Even while his investigations were proceeding, the Government of Bengal utilized his findings in the formulation of programmes carried out through the Central Road Fund Projects. Up till the formulation of the Post-War Road Development Plan, the cost of developing road communications was being met almost exclusively from the Central Road Fund. There was a distinct improvement in Road Fund expenditure, both quantitative and qualitative, after King had started his investigations. However, the War intervened and the King-scheme had to be put in cold storage.

The entire road system put to severe strain during the war years, was found wanting in material respects; and its deficiencies were exposed to the public view as never before. It was realized that this vital problem of road communications should be tackled on an all-India basis and not on a patchy provincial plane. In December 1943, the Nagpur conference laid the basis of a comprehensive and well co-ordinated plan. The King-plan, revised in the light of the recommendations of the Nagpur conference, had to be modified again owing to the partition which affected Nadia seriously. Cut off from their usual trade routes the Nadia

¹ A. J. King, op. cit., p. 128,

border areas were facing economic isolation. Quick integration of these areas with the normal trade channels of West Bengal became necessary. Administrative problems were also no less insistent. Partition imposed on West Bengal the heavy burden of policing a 600-mile international frontier. Police stations in the moribund deltaic tract of Nadia had to be connected with one another and with the subdivisional and district headquarters by a network of all-weather roads. There was also the new problem of enforcement of land customs to prevent smuggling of dutiable and contraband goods across the frontiers. The following table will indicate Nadia's share in the whole scheme for West Bengal.¹

Category of roads	Nadia		Wes	West Bengal	
	Miles	Kilometres	Miles	Kilometres	
National Highway	A 15	101-	592	953.1	
Provincial Highway	83	132.8	1,067	1,717.9	
Major District Road	257	411.2	2,953	4,754.3	
Other District Road	176	281.6	2,820	4,540.2	
Village Road	250	400 .0	5,849	9,416.9	
	1/// 1				
Total	766	1,225.6	13,281	21,382.4	

Work on the revised plan commenced in 1948. It was reviewed by the Planning Commission in 1950. The First Five Year Plan concentrated primarily on the rehabilitation of the truncated road system, caused by partition. Even before the commencement of the First Plan an arterial road from Calcutta to Baharampur in Murshidabad district through Ranaghat, Shantipur, Krishnanagar, Nakasipara, Debagram and Palashi came into being. The Krishnanagar-Hanskhali-Bagula road and Bagula-Duttaphulia-Aranghata road were renovated and converted into first class roads. These roads while connecting all the important towns of the district helped to stabilize a large displaced population in this tract. The significance of these roads for Nadia should be measured in terms of (i) a 49% growth of population of the district during 1951-61 owing to the migration of refugees from East Pakistan (now Bangladesh) and (ii) the fact that Nadia had almost 18% of its total population in the urban sector which is one of the highest for the State. The Krishnanagar-Chapra-Betai-

¹ Kalidas Lahiri, Road Problems of West Bengal, Calcutta, 1950, pp. 24-25.

Karimpur-Shikarpur road (73.6 km.), important not only for security but also for marketing of local agricultural produce, fulfilled a long-felt need. Before 1948, all communication in this northern tract used to come to a standstill during the monsoon. Similarly, the Ranaghat-Krishnanagar-Palashi road opened up the district from end to end. The Palashi-Betai road also joined up the two trunk roads of the district in the north and thus helped to open up the whole of the north country.¹

The Second Plan extended the road network to connect all thana headquarters. Since the first two Plans could not provide adequate funds for maintaining road standards, improving the bridges and providing 'missing links', the Third Plan investment was directed primarily to improving the quality of roads, bridges and culverts. The Fourth Plan is designed to lay emphasis on roads which will serve industrial concentrations, potential centres of economic growth, and underdeveloped areas.

The following tables give an idea of the progress of road development and maintenance under different authorities. It will be observed that the length of unmetalled roads even within the municipalities, which maintain only non-arterial roads, is fairly high. The Public Works Department has converted several village roads into district and State highways giving them a metalled crust 3.66 metres wide on embankments, the width of which vary from 7.32 to 9.75 metres.

1. MILEAGE OF ROADS MAINTAINED BY WORKS & BUILDINGS, PUBLIC WORKS DEPARTMENT, WEST BENGAL IN NADIA DISTRICT

		Total	Metalled	Unmetalled
Mileage as				
on 31st March	1951	58.6	56.4	2.2
99	1952	48.6	46.4	. 2.2
**	1953	48.6	46.4	2.2
**	1954	48.6	46.4	2.2
**	1955	46.6	43.6	3.0
	1957	45.7	43.7	2.0
**	1958	209.5	206.5	3.0
**	1959	226.1	216.9	9.2
19	1960	241.6	229.4	12.2
••	1200	- 11.U		

¹ A. Mitra, op. cit., p. xxxiv.

National highways and village roads

2.	MILEAGE OF	ROADS N	JAINTAINE) BY	DISTRICT	BOARD/	ZILLA
		PARISHA	D IN NAD	IA D	ISTRICT	,	

				Total	Metalled	Unmetalled
Mi	leage	as				
on	31st	March	1955	967	17	950
		**	1956	977	26	951
		**	1961	956	22	934
		,,	1962	968	22	946

Most of the village roads are maintained by the Zilla Parishad. These are generally kutcha roads mostly with 4.87 metres embankment. The more important of them are sometimes provided with cement concrete or brick track-ways and improved culverts so that they may serve as fair weather roads. In 1951, there were 670 village roads in the Sadar and 396 in the Ranaghat subdivisions.

MILEAGE OF ROADS MAINTAINED BY MUNICIPALITIES OF NADIA DISTRICT

		Total	Metalled	Unmetalled
Mileage as		中野河 新野子		
on 31st March	1955	291	100	191
*,	1962	308	136	172

The length of extra-municipal roads under Public Works Department in Nadia on 31st March 1968 was 762.0 km. The National Highway No. 34 runs from Chakdaha to Palashi. The major district roads maintained by the PWD are: Krishnanagr-Hanskhali-Bagula Road, 20.8 km. (13 miles); Krishnanagar-Majdia Road, 27.2 km. (17 miles); Krishnanagar-Navadwip Road, 12.0 km. (7½ miles); Krishnanagar-Hridaypur Road, 19.2 km. (12 miles); Palashi-Betai Road, 30.4 km. (19 miles); Chapra-Betai-Karimpur-Shikarpur Road, 73.6 km. (46 miles); Karimpur-Jalangi Road, 12.8 km. (8 miles); Karimpur-Domkal Road, 3.2 km. (2 miles); Bhagirathi-Bethuadahari Road, 12.0 km. (7½ miles); Bagula-Duttaphulia-Aranghata Road, 25.6 km. (16 miles); Shantipur-Kalna Road, 8.0 km. (5 miles) and PWD Road within Krishnanagar Municipality, 4.8 km. (3 miles). The village roads main-

Government of West Bengal, Economic Review, 1970-71, Alipore, 1971. P. 45.

Vehicles and conveyances

tained by the PWD are: Phulia-Tarapur Road, 4.8 km. (3 miles); Phulia-Arbandi Road, 8.8 km. ($5\frac{1}{2}$ miles); Phulia Township, 4.0 km. ($2\frac{1}{8}$ miles) and Phulia-Taherpur-Birnagar Road, 4.8 km. (3 miles). The only other district road maintained by the PWD in Nadia is Mira Road the length of which is 3.2 km. (2 miles).

There is no official record on the beasts of burden. The Regional Transport Officer, Nadia provided the following statistics on the means of conveyances.

NO. OF CYCLE RICKSHAWS, CYCLES, BULLOCK CARTS, PONY CARTS, ETC. IN NADIA DISTRICT: 1970-71

Name of Blocks	No. of Cycle Rickshaws	No. of Cycles	No. of Bullock carts	No. of Pony carts
Krishnanagar I	1,000	12,000	2,000	
Krishnanagar II	32	1,020	1,990	
Krishnaganj	155	3,500	1,515	
Nakasipara	82	530	2,651	
Navadwip	1,047	15,000	964	
Kaliganj	53	5,272	4,297	
Tehatta I	49	6,153	3,508	
Tehatta II	10	3,227	1,714	
Chapra	25	9,000	3,000	
Ranaghat I	50	95	350	
Ranaghat II	156	2,350	1,850	
Karimpur	41	6,821	5,803	
Shantipur	336	4,587	1,453	103
Hanskhali	225	1,550	5,300	
Chakdaha	379	6,921	2,181	
Haringhata	154	5,846	2,354	

Municipalities are not included in the above list. Some of the municipalities issue licences to cycle rickshaws and bullock carts. The number of new licences issued to different categories of automobiles by the district authorities during successive plan periods is given below.²

B. Ray, op. cit., p. 335.
 Source: Regional Transport Officer, Nadia.

Plan periods	Heavy	Medium	Light
1951-56	190	18	190
1956-61	121	8	117
1961-66	108	7	159
1966-71	31	6	149

Public transport: privately owned bus and taxi scrvices

Taxi and tempo services have just started. The district had no taxi during the first two plans, that is, up to 1961. Out of 11 taxis, 7 commenced operating during 1961-66 and 4 during 1966-71. There were no tempo vans during 1951-56. Out of 88 tempo vans, 41 commenced operating during 1956-61 and 47 during 1961-66. There was no addition during the 1966-71 period. Bus services are fairly developed. Out of 45 bus routes, 36 are all-weather routes. In 1949, there were only 16 routes. No routes were opened during 1950-52, 1957, 1960-62 and 1969. However, 12 routes were opened during the first two plan periods and 17 during the next decade. Out of 164 buses plying within the district currently, all privately owned, 145 offere permanent daily services and 19 are temporary. The Krishnanagar-Shikarpur/Gopalpurghat, Krishnanagar to Ranaghat via Aranghata, Krishnagar-Navadwip, Krishnanagar-Banpur/Bhajanghat, Chakdaha-Bongaon, Kalyani Railway Station to Kanchrapara Railway Station, and Kanchrapara to Nimtala via Haringhata, Nagarukhra and Kasthadanga are the busiest routes, their approximate total length being 220.8 km. (138 miles). The condition of 12 bus routes with an aggregate length of about 376.0 km. (235 miles) is bad. The 164 buses give approximately 474 trips per day.

ing all the thanas except Haringhata in the extreme south and a wedge shaped tract in the extreme north comprising Karimpur, Tehatta and Chapra thanas. Railways in the district started under Company management. Later came the phase of Company-managed and Company-owned railways, existing side by side with State-owned and Company-managed railways and finally State-owned and State-managed railways. From 1880 to 1907 the operations of both the State and aided Companies went on side by side. During this phase productive lines were leased to private enterprises, while the State took charge of the rest. The

first railroad was opened from Sealdah to Banpur via Ranaghat by the old Eastern Bengal Guaranteed Railway Co. in 1862. The lines owned by this Company were acquired by the State on the

Railway communication within the district is provided by six

sections of railroads with a total length of about 217 km. connect-

RAILROADS

1st July 1884, with which the Northern Bengal State and the Calcutta and South-Eastern Railways were amalgamated for working by the State as one undertaking under the name of the Eastern Bengal Railway. The year of registration of the old Guaranteed Company was 1857.

It may be of interest to mention that the railway mania had invaded Calcutta as early as 1845-46, and a project from Calcutta to Bhagwangola, was put forward in a prospectus by the Central Bengal Railway Co. to be started with a capital of £15,00,000. Money was subscribed by several people in Calcutta but shortly afterwards the promoters and the money both disappeared. The Ranaghat-Bongaon line constructed in 1882 was, however, formerly known as the Central Bengal Railway. Later on this line was called the Central Branch of the Eastern Bengal State Railway.2 Messrs. Martin and Co. had constructed a light railway 20 miles in length, from Aistola Ghat (on the right bank of the Churni, about two miles from Ranaghat) to Krishnanagar via Shantipur at a cost of Rs. 7,00,000 upon a guarantee by the District Board of 4 per cent interest on capital expenditure. The line with seven stations was opened in 1898 and was worked by the Company. It was taken over by the Eastern Bengal State Railway on 1st July 1904. During the intervening years it never worked at a profit of more than 3 per cent and the District Board in consequence lost a considerable sum annually in making good the guarantee. By 1910, there were several plans for the construction and extension of cross-country railway lines most of which did not materialize. One such proposal was for constructing a 2'6" gauge light railway, 56 miles in length from Krishnanagar to Jalangi via Meherpur (in Bangladesh) at a cost of Rs. 15,36,522. An extension of the Shantipur-Krishnanagar light railway from Ghoralia station to Kalnaghat via Shantipur city and from Shantipur city to Shantipur station was also contemplated.3

The Assam Bengal Railway Co. which was formed in England in 1892 was acquired by the State and merged with the old Eastern Bengal Railway on 1st January 1942 under the name of Bengal and Assam Railway. With the partition, the Bengal and Assam Railway system had to be redivided and as a result

¹ Government of India, Indian Railways: One Hundred Years: 1853-1953, New Delhi, 1953, P. 4.

2 J. H. E. Garrett, op. cit., pp. 97, 100.

3 Ibid., p. 101.

the East Indian Railway took over the lines in Nadia district. In 1952, the whole railway system of the district was regrouped under the Eastern Railway. The property owned by the old Guaranteed East Indian Railway Co, was purchased by the State in 1879, but was worked by a reconstituted company to the end of 1924. The line was brought under direct State management with effect from 1st January 1925. Although outside the district, the Jubilee Bridge opened on 15th March 1887, provided the much needed link between the Eastern Bengal Railway and the East Indian Railway. The Bandel-Barharwa branch lines (BAK Loop) also came to provide similar cross-country link in 1912 when Bandel and Katoya were connected with Navadwip Dham. The following statement prepared from the History of Indian Railways corrected upto 31st March 1951 by the Government of India, gives in a nutshell the progress of railway extension in the district.

Sections of Railway	date of opening	Miles
Sealdah-Ranaghat- Banpur to mile 72/15-16 of Eastern Railway's Main Line	29.9.1862	From Calcutta (Sealdah) 72.60
Ranaghat to Bongaon of Eastern Railway's Central Section	16.10.1882	From Ranaghat 21.14
Ranaghat to Bhagwangola of Eastern Railway's Murshidabad Section	a 1.9.1905	From Ranaghat 89.60
Portion of Naihati- Bandel and Bandel- Halisahar of Eastern Railway's Main Line	15.3.1887	From Bandel .86 and 1.81 respectively
Aistola Ghat to Krishnar via Shantipur	nagar 1898	From Aistola Ghat 20.0
Bandel Junction to Navadwip Dham of Eastern Railway's Bandel-Barharwa Branch	1.4.1912	From Bandel 40.47

Sections of Railway	date of opening	Miles
Navadwip Dham to Katoya of Eastern Railway's Bandel- Barharwa Branch	15.5.1912	From Navadwip 24.44
Churni Bridge (Ranaghat) to Shantipur of Eastern Railway's Shantipur Branc		From Shantipur 10.07
Shantipur-Navadwip Ghat Branch (extension from Krishnanagar)	1926	From Shantipur 17.14

By 1898, except 0.15 mile between Bagula and Majdia, the Kanchrapara-Banpur section of the old Eastern Bengal Railway was operating on double track. The 2', 6" gauge of the Aistola Ghat-Shantipur light railway was converted into the standard 5' 6" gauge and extended over the Churni Bridge to provide a through connexion with Ranaghat in 1925. However, the Shantipur-Krishnanagar section and the Shantipur-Navadwip Ghat branch still remains in the 2' 6" gauge. Recently, a survey has been made for its improvement. Between Kalyani and Krishnanagar City and between Ranaghat and Shantipur, electric traction has been introduced with Electrical Multiple Unit coaches of higher carrying capacity and higher speed plying on it. As a result, frequency of train movement has improved, Lalgola and Banpur passengers are also being hauled by electric engines to cut down running time.

Lengths: points connected and important stations

Ranaghat, the most important railway node of Nadia, is 74 km. from Sealdah, 20 km. from Shantipur, 76 km. from Palashi (on the Lalgola section), 15 km. from Majhergram (on the Bongaon line) and 43 km. from Gede. Ranaghat is a very busy station handling 92 locals and long-distance passenger trains everyday. Of these 69 trains in the up and down direction pass through Ranaghat to the eastern Hugli conurbation belt upto Sealdah. Ranaghat is the originating and the terminus point for 12 trains to and from Sealdah, 10 to and from Bongaon, 1 to and from Shantipur, 2 each to and from Palashi and Krishnanagar City and 6 to and from Gede.

¹ The first electric trains ran from Sealdah to Shantipur on 2nd April 1964, and from Sealdah to Krishnanagar City Junction on 25th April 1964.

Navadwip Dham, the only station within Nadia district on the BAK Loop Line, will derive some direct benefit of a through connexion with North Bengal from the Farakka Bridge. On the left of the Bhagirathi, there are five stations on the 28 km. long narrow gauge light railway between Navadwip Ghat and Shantipur railway stations. On the 15 km. Ranaghat-Bongaon section, two stations, namely, Gangnapur and Majhergram fall within the district. Between Shantipur and Ranaghat there are three stations; between Palashi and Krishnanagar City there are nine stations of which Bethuadahari, Palashi and Krishnanagar City are important, being nodal points of roads which radiate to areas not served by the railways. Between Krishnanagar City and Ranaghat, there are four stations of which Badkulla (on the junction of Hanskhali, Krishnanagar, Ranaghat and Shantipur police stations) is important and Kalinarayanpur Junction a new station. Between Ranaghat and Kanchrapara there are six important stations, namely, Payradanga, Chakdaha, Palpara, Simurali, Madanpur and Kalyani. Of these Kalyani, 48 km. from Sealdah at the site of the old Chandmari shooting range, is served by 39 down and 36 up trains to and from Sealdah. ever, except one in the down direction, the Lalgola Passengers (which are the most important trains passing through the district) do not stop at Kalyani. Between Ranaghat and Gede there are seven railway stations of which Aranghata on the Churni, Majdia at the junction of the Churni and the Ichhamati and Banpur are important. Gede, Bahirgachhi and Tarak Nagar Halt are new stations on this section. Altogether there are thirty-eight railway stations within the district of which Ranaghat is the main nerve centre.

Few forces have been more influential in modifying the cultural landscape of the district than modern transportation. Nadia being the immediate hinterland of Calcutta, was affected most by the railways. Swarupganj on the south bank of the Jalangi at its junction with the Bhagirathi, Hanskhali on the Churni river and Bangaljhi on the banks of the Jalangi near Chapra which were important river-marts or stations for the collection of Nadia river tolls, declined with the advent of the railways. The railways failed to help these centres. In contrast some of the flourishing settlements, such as, Birnagar, Chakdaha, Krishnanagar, Navadwip, Ranaghat and Shantipur gained so much additional significance with rail connexion that it was immediately

Role in the economic life of the district; Passenger and Goods traffic

followed by the extension of municipal administration to these towns.

The contribution of the railways to the economic development of the district has been as phenomenal as the development of the railway system itself. Demands for construction of a network of railway lines radiating from Ranaghat were associated with the justification of developing certain backward regions and some very productive agricultural belts which formed the hinterland of Calcutta. Major highways in India had, for centuries, radiated from such inland centres as Delhi, Lahore, Agra, etc. towards the sea coast. The process was reversed in regard to railways. The railways, except in the north, started from the three seaports, Bombay, Calcutta and Madras and extended into the interior of the country. The railways were the main strength behind the centripetal forces of the Calcutta port which forced Nadia and other districts in the immediate hinterland to depend entirely upon the Calcutta industrial belt for their economic sustenance and growth. Railways have promoted the internal and external trade of the district. In the distribution of foodgrains and other foodstuffs, in the carrying of ores and minerals and in transporting the progressively increasing volume of exports and imports of several varieties of goods, the railways have played an important part. During such national emergencies as war, partition, flood, famine and drought the railways have rendered signal service to Nadia district and its people.

The total rail-borne imports into, and exports from, the old undivided Nadia district during the year 1908-09 amounted to 13,74,277 and 16,42,660 maunds respectively. Among imports the most important items were—paddy 6,22,399 maunds; salt 2,12,124 maunds; kerosene oil 1,16,369 maunds; and rice 1,13,207 maunds. Among exports the most important items were—raw jute 7,55,324 maunds; gram and pulses 4,74,934 maunds; 'other food-grains' 1,14,456 maunds; and gur (jaggery) 84,189 maunds.¹ The railways have played a very important role in transporting food on an emergency basis. Nadia being primarily an agricultural district the pattern of freight traffic has changed but little since 1910. However, owing to the partition and growth of population, Nadia now has little exportable surplus of agricultural produce except jute. Only 14.42 per cent of the workers were industrial labourers in 1961. In 1960 when only 47 towns and

¹ J. H. E. Garett, op. cit., p. 102.

villages of the district were being served by electricity, the district had only 21 registered factories giving employment to only 1,784 workers. In 1962, only 5 police stations, namely, Krishnanagar, Navadwip, Ranaghat, Chakdaha and Shantipur were blessed with banking facilities. By 1962 the district had only 5 warehouses at Chakdaha, Krishnanagar, Ranaghat, Navadwip and Karimpur. In recent years some medium scale industries have grown up at Kalyani which is due to a planned extension of the Calcutta Metropolitan Area into this district. However, it should be worthy of note that while old municipal towns grew on the principal rivers of the district, the new towns have grown more on the principal railway communication line in the south western part of the district. The following tables depicting passenger and goods traffic of the important stations in Nadia district for 1969-70 and 1970-71 will serve as a good index of the role of the railways in the economic life of the district.

1. ORIGINATING RAILWAY PASSENGER AND GOODS TRAFFIC AND EARNINGS IN NADIA DISTRICT: 1969-70

		VA UUA	I)	(Outward only)	
SI.		No. of	Amount	Weight in	Amount
No.	Name of Railway Stations	passengers	(Rs.)	tonnes	(Rs.)
1.	Kalyani	5,93,693	2,86,291	7,932	5,27,073
2.	Madanpur	7,46,515	2,27,618	Nil	Nil
3.	Simurali	5,94,459	-1,93,782	Nil	Nil
4.	Palpara	1,48,676	54,435	Nil	Nil
5.	Chakdaha	19,01,741	7,22,795	160	8,459
6.	Payradanga	5,51,126	1,46,691	Nil	Nil
7.	Ranaghat Jn.	34,07,206	16,01,147	1,525	13,816
8.	Aranghata	6,04,801	2,18,655	Nil	Nil
9.	Bagula	4,20,220	2,12,589	415	8,271
10,	Taraknagar Halt	25,410	12,396	Nil	Nil
11.	Majdia	1,99,734	1,13,213	860	18,098
12.	Banpur	84,695	42,158	130	1,189
13.	Gede	24,661	12,997	Nil	Nil
14.	Kalinarayanpur Jn.	2,80,397	65,436	Nil	Nil
15.	Birnagar	3,64,116	1,87,404	85	2,760
16.	Taherpur	3,33,512	1,40,138	371	26,481
17.	Badkulla	3,16,446	1,77,689	45	2,189
18.	Krishnanagar City Jn.	15,85,535	13,74,471	3,029	1,08,535
19.	Karimpur Out Agency	15,244	15,051	226	4,475
20.	Bahadurpur	26,069	12,476	Nil	Nil
21.	Dhubulia	1,56,202	1,13,719	625	14,554
22,	Muragachha	1,31,087	97,366	139	1,372
23.	Bethuadahari	1,73,182	1,80,038	2,481	61,590
24.	Sonadanga	17,162	9,477	Nil	Nil
25.	Debagram	1,34,422	1,21,891	1,542	50,010

(Contd.)

Sl. No.	Name of Railway Stations	No. of passengers	Amount (Rs.)	(Outw Welght in tonnes	ard only) Amount (Rs.)
26.	Paglachandi	51,605	24,207	Nil	Nil
27.	Palashi	2,22,603	1,82,253	6,300	1,13,136
28.	Habibpur	1,32,560	51,174	Nil	Nil
29.	Phulia	3,27,658	1,50,335	168	20,558
30.	Shantipur Jn.	5,04,447	3,67,691	79	1,731
31.	Dignagar	40,176	16,990	Nil	Nil
32.	Krishnanagar Road	41,325	20,252	Nil	Nil
33.	Amghata	30,010	12,085	Nil	Nil
34.	Maheshganj	17,288	10,352	Nil	Nii
35.	Navadwip Ghat	1,57,191	1,14,455	Nil	Nil
36.	Navadwip Dham	9,04,012	10,62,781	1,018	11,725

2. STATEMENT OF PASSENGER TRAFFIC DURING 1970-71

Name of the stations	No. of ordinary passengers	Revenue on ordinary passengers (Rs.)	No. of season ticket passengers	Revenue on season ticket passengers (Rs.)	No. of inward passengers
Krishnanagar City Jn.	8,65,554	13,08,120	2,65,425	2,02,914	9,39,425
Ranaghat Jn.	14,74,247	11,21,075	7,95,775	4,10,244	24,48,705
Santipur	1,62,480	2,43,951	1,72,125	1,26,603	3,08,685
Chakdaha	6,67,368	4,98,495	4,67,550	2,29,830	9,37,540
Kalyani	4,85,251	4,47,320	1,78,725	57,930	3,89,717
Gangnapur	1,93,433	1,00,573	84,350	29,171	2,38,000
Majhergram	99,667	58,262	35,700	15,666	1,18,000
Bahirgachhi Halt	57,778	31,894	2,700	963	56,125

3. STATEMENT OF GOODS TRAFFIC DURING 1970-71

	Outward		Inward	
Name of the stations	Quintal	Revenue Rs.	Quintal	Revenue Rs.
Krishnanagar City Jn.	30,410	1,11,395	4,54,712	14,01,223
Ranaghat Jn.	15,881	16,446	5,18,104	16,03,957
Shantipur	1,242	2,115	96,501	2,60,751
Chakdaha	2,695	10,700	87,003	3,38,445
Kalyani	1,02,411	5,77,227	5,53,056	12,87,579
Gangnapur	75	155	4,250	5,152
Majhergram	Nil	Nil	Nil	Nil
Bahirgachhi Halt	Nil	Nil	Nil	Nil

It will be observed that in spite of locational disadvantages, merchandise traffic contributes a large part of the railway income. However, the development of railways has not been as conducive to the development of industries and agriculture in this district

as it has been in Calcutta and 24-Parganas owing to their closer proximity to the port. There is neither any full fledged office nor any railway establishment such as railway workshop or hospital within the district. Incidence of ticketless travel is very high but theft and wagon breaking in Nadia district are rare.¹

In order to meet the growing demand of heavy transportation of goods that the railways are unable to meet, as also to extend facility of quick transportation of commodities beyond rail-heads a large amount of road traffic has sprung up to supplement the need. So far, this has been a symbiotic growth, healthy for both the roadways and the railways. The proposed road bridge over the Bhagirathi to link up NH 34 with NH 2 will strengthen these cross-country links and will somewhat eliminate the necessity of a detour by the Bandel-Naihati railway.

Rail-road competition and regulation of transport

The Nadia waterways are now maintained by the Berhampur Irrigation Division of the State Government. The following table contains the chief arteries of Nadia and their length.² These water-courses are navigable only during the monsoon.

WATERWAYS.
BRIDGES AND
FERRIES

Name of Waterways (Rivers)

Length

Bhagirathi

105 miles from Palashi to Kanchrapara

Jalangi

104 miles from Muktiarpur to

Swarupganj

Mathabhanga

10 miles from Krishnaganj to

Bangladesh border

Churni (Lower

38 miles from Krishnaganj to

Mathabhanga) Chakdaha

Ichhamati

44 miles from Bongaon (24-Parganas

district) to Krishnagani

Toll on river traffic was first established in 1813 on the Mathabhanga. According to Hunter's Statistical Account of Nadia and Jessore, the net revenue from the Nadia rivers in the

Toll on river

¹ Source: Divisional Superintendent, Sealdah, Eastern Railway

² Source: District Magistrate, Nadia (1963).

year 1847-48 was Rs. 1,80,250, and during the ten years ending with 1870-71, Rs. 1,04,538, the average annual expenditure during the same decade being Rs. 1,45,094. The annual income and expenditure dropped sharply in the following decades due not only to the deterioration of the navigable channels but also to railway competition. The following table shows the revenue position from river tolls up to 1907-08 by which time the Sealdah-Ranaghat, Ranaghat-Bongaon, Ranaghat-Bhagwangola and Aistola Ghat-Shantipur-Krishnanagar sections of railways were operating in full swing.

Period	Average annual income	Average annual ex- penditure	Average annual net surplus or deficit
1871-72 to 1880-81	2,32,938	87,019	+1,45,918
1881-82 to 1890-91	1,95,632	1,18,136	+ 77,495
1891-92 to 1900-01	1,27,479	1,25,864	+ 1,615
1901-02 to 1907-08	76,629	1,23,689	- 47,060

A contributory cause of the fall of receipts was reduction of tolls introduced in 1906. Decline of the steamer companies was further accelerated by the Government policy from 1880 to 1907 to lease productive railway lines to private enterprises and to take over the unproductive lines as a protective measure. This gave the railways an edge over the waterways.

The efforts made since 1813 to improve the Mathabhanga channel were hardly successful. The first dredging machine worked by oxen and costing Rs. 10,400 was used on the Mathabhanga in 1823. These earlier dredgers could hardly stir up the bed and the current failed to carry the silt away. Major Lang considered that if there was any flow, the common bandal was just as efficacious, although by dredging above the bandal, results could be obtained sooner. The first experiment with a modern dredger on the Nadia rivers was undertaken by Mr. O. C. Lees in April 1902 with the 'Lindon Bates' of the Calcutta Port Trust. In 1905-06 the 'Nemotha', in 1906-07 the 'Alpha' and in 1907-08 the 'Rescue' was set to work on the Bhairay. These dredgers

Dredging

lifted 31.6 to 79.5 cubic metres (1,129 to 2,839 cubic feet) of soil an hour. The Bhairav remained open during 1905-07, but the following year the entrance was so narrowed as to cut off the headwater supply and thus impeding dredging operations, In 1909-10, the 'Alexandra', capable of lifting 283 cubic metres (10,000 cubic feet) an hour, was tried at the entrance, assisted by the 'Nemotha'. Up to 1917 either the 'Nemotha' or the 'Rescue' was employed. Their performance was not encouraging. Mr. Reaks came to the significant conclusion that the dredging results cannot be expected to be permanent as the continually varying conditions of slope and sedimentation on a rising river induce new sets of channel conditions and the dredged cuts of the dry season are almost certainly filled up during the floods, so that the operations need to be repeated each year. Mr. May, who succeeded Robinson, first directed his attention to the snags consisting of trees and wrecked boats which encumbered the channel. Numerous trees which grew on the river side, and which fell into the stream wherever the waters cut into the banks were cut down and other snags removed. In the long run cutting down of the trees proved harmful as the banks without their vegetative cover faced greater erosion than ever.

During 1820-21, the Mathabhanga was deepened by means of bandal, a permeable oblique weir, or spur. It consists of two lines of bamboo stakes anchored out from both banks. These poles fastened at the top by oblong headbars and walled by mat screens (jhāmps), gradually converged at 45° so as to force and concentrate the current into a narrow channel. In 1824, Mr. May took additional charge of the Bhagirathi and the Jalangi and a regular establishment was sanctioned for the three rivers. In February 1835, owing to doubts as to whether the benefits that accrued from the works were worth the expense, all river training operations were stopped. Work was resumed in June 1837. For the next three years the Bhagirathi was the most favourable of the three rivers for navigation. In August 1840, May resigned. The operations carried on by his successor Captain Smyth till 1847, were the same as those previously adopted.

In December 1847, Captain Lang was appointed Superintendent of the Nadia rivers. To intensify the remedial operations, he informed the Government that during the eight previous years the total toll collections on the rivers had yielded an average annual surplus of Rs. 1,65,090 over the entire amount expended in keeping open the navigation.

Bandal system

Regular river training establishment

In 1888, the revenue administration of the Nadia rivers was transferred from the Board of Revenue to the Public Works Department. A separate "Nadia Rivers Division" was constituted and placed under an Executive Engineer. Since that year about 1¹/₄ lakhs of rupees were spent annually, chiefly on river training. The real significance of these measures from the point of view of the district's economy was that such huge expenditure on the waterways proved profitable in spite of an ever-growing railway competition. Mr. H. G. Reaks, River Surveyor of the Port of Calcutta, in his report to the Stevenson-Moore Committee of 1919, made very valuable observations which are as follows: Owing to the variable conditions in the Ganga channel between the offtakes of the Bhagirathi, Mathabhanga, Bhairav and Jalangi rivers, which is complicated by the entrance of the Mahananda on the opposite side, stabilizing of these spill offtakes would be a matter of great difficulty. Any scheme of canalizing these distributaries is a doubtful remedy, requiring extensive training works on the Ganga. It may be possible at long odds to canalize the Mathabhanga for navigational purpose. The bandal and the spur system would not ensure a flow through the offtakes in the dry season. To dredge the whole of the channels of the headwaters would involve huge expenditure, but it would probably suffice if powerful dredgers were employed at the offtakes to ensure a perennial flow which with the aid of bandals would keep open the lower channels. Success of such dredging operations would depend on the improvement of the Bhagirathi offtake. The Stevenson-Moore Committee accepted all this and further recommended that Government should exercise control over the erection of embankments with regard to the natural spill areas of rivers. It made caustic comments on the railway embankment which was proposed between the East Indian Railway, the Murshidabad branch of the Eastern Bengal Railway and the main Eastern Bengal Railway line at Bhairamara (now in Bangladesh). The proposed line would have crossed the whole drainage area of the Nadia feeder rivers at right angles to the general gradient. Finally, the Committee regretted that it was impossible to heal the damage caused by the upper Ganga irrigation canals which extract during the dry season at least 20 per cent of the total discharge of the Ganga. It recommended that 'sanction should not be given to such schemes by the Government of India until all the local Governments whose interests may be affected directly or indirectly have been consulted'.

In 1858, Arthur Cotton had advocated the building of a barrage Ganga Barrage on the Ganga to rejuvenate the Nadia rivers. However, it is doubtful whether the direct and important bearing of the condition of the Nadia rivers on the efficiency of the main waterway leading from the sea to the Calcutta Port was sufficiently appreciated until quite recent times. It was not until 1902 that the need of an investigation into the state of the river from Calcutta to the confluence of the Bhagirathi and Jalangi, a length of 140 km., came officially before the Port Commissioners. Between 1930 and 1945, the idea of a barrage across the Ganga was put into cold storage. However, two British experts Mr. T. B. Oag in 1939 and Mr. W. Webster in 1946 revived the idea. Preliminary investigations on the Ganga Barrage Project started under the guidance of Dr. A. N. Khosla, the then Chairman, Central Water, Irrigation and Navigation Commission. Between 1947 and 1952, the Government of India, in conjunction with the Government of West Bengal, studied the problem of a barrage more closely and drew up a project of the largest hydraulic structure so far anywhere in the world on permeable sand foundation with all its subsequent works of river handling down the country across the Nadia district. The trickling discharge of headwater into the Bhagirathi channel from the Ganga cannot carry the silts from the uplands (and the Chotanagpur plateau) to the sea while the wide and shallow continental shelf enables the tidal waves to scour the surface and carry the sands inland. About 2.8 million cubic metres of silt, according to the Union Ministry of Irrigation and Power, come into the Bhagirathi-Hugli every year, two thirds of which is deposited in the river below Kalyani. This again is pushed up by the flood tides. The monsoon discharge during mid-June and mid-November cannot undo this damage. 'Farakka Control Board' which represents both the Central and State Government interests was constituted in 1961 and was charged with the task of construction of the barrage. Simultaneously with the construction of the barrage and erection of gates, the road-bridge connecting the NH 34 on both banks of the Ganga and the rail-bridge linking Eastern Railway and Northeast Frontier Railway have been constructed. Although the work of the main barrage has been completed well ahead of schedule, the commissioning of the project is being delayed as the link canal joining the Bhagirathi with the Ganga is yet to be completed. When completed the barrage will feed the Bhagirathi with additional water in the following manner:

Ist January to mid-March	40,000 cusecs
Mid-March to mid-May	20,000 ,,
Mid-May to mid-September	20,000 to
	40,000 "
Mid-September to mid-December	40,000 ,,

This additional water will come through a 48 km. long feeder canal on the right bank of the Ganga and a little west of the barrage with a capacity of 20,000 cusecs of silt-free water. The Indian River Research Institute, Poona, has assured that this 20,000 cusecs of water will keep the Bhagirathi navigable for any vessel of 9 feet draft throughout the year. It is also hoped that this silt-free water will restrict the possibilities of shoal formation in the Bhagirathi. Revival of a year-round water-borne traffic from Calcutta to Nadia, Mursidabad and the northern parts of India would certainly help the development of internal trade and agro-based industries of the districts lying on the right bank of the Bhagirathi. But Nadia on the east bank may be adversely affected so far as inland navigation on the Mathabhanga, Jalangi, Churni and Ichhamati is concerned.

The completion of the barrage is bound to further deteriorate the regime of the decadent and beheaded Nadia rivers which are already unable to draw adequate supplies even from the back pressure of the Padma. Adequate river training measures on the Bhairav, Mathabhanga, Jalangi, Churni and Ichhamati seem to be the only solution.

COURSES OF WATERWAYS AND IMPORTANT POINTS TOUCHED The chief riverine trade centres are Navadwip, Kaliganj and Matiari on the Bhagirathi; Karimpur, Tehatta, Andulia and Krishnanagar on the Jalangi; Hanskhali and Ranaghat on the Churni. The Bhagirathi still carries a large amount of traffic for about 8 months of the year. In the height of the monsoon between July and September, cargo steamers ply up and down the river joining Calcutta with Mokameh and Karagola. The Jalangi, the Churni and the Ichhamati also convey some inland boat traffic between the months of June and October.

The following types of old-time boats are still to be found in the district. The *Malini*, which plies only during the rains on the Bhagirathi, is round both in the stem and the stern, with stern somewhat higher than the bow; it is wider and of greater draft than most other boats used on these rivers; the oars are pulled from the

Boats

¹ A. Mitra, op. cit., p. xxxiv.

roof. The Patli is a flat bottomed, clinker-built boat of less width and draft than the Malini, the oars of which are worked from the roof. Its main cargo is grain and it plies only during the rains. The Bhar is a strong, heavily built boat, capable of carrying stone, coal and similar articles; it is of equal width for nearly the whole of its length, and has very blunt stem and stern. It plies in the monsoon months only. The Katra is a flatbottomed, clinker-built boat, of very light draft for its size; when loaded, it is generally towed; when empty, the oars are worked from inside the roof. This type seems to suit the exigencies of traffic on the Nadia rivers during the monsoon. The Sarong is a much smaller boat with rounded bow and flat stern; it is comparatively narrow and has a deep draft for its size but it serves all the year round. The Sangri is a peculiar shaped boat, with a bottom bulging down below the keel on each side; it has a very low free-board, and is in consequence liable to be swamped when the rivers are in flood. It plies throughout the year. The Ulak is long and shapely and is covered with a roof throughout its length. Its main cargo is jute and plies mainly during the The Phukni is a portly boat, open with the exception of a small portion in the stem, which is roofed over.1 It can ply throughout the year. The capacity of Malini, Patli, Bhar and Katra varies from 1.9 to 9.3 tonnes (500 to 2,500 maunds), that of Sarong and Sangri from 7.5 quintals to 3.73 tonnes (200 to 1,000 maunds), that of *Ulak* from 1.9 to 5.6 tonnes (500 to 1,500 maunds) and that of Phukni from 1.9 to 3.73 tonnes (500 to 1.000 maunds).

The partition in 1947 sealed the fate of riverine communication of this truncated district. Even in late thirties of this century several rivers of the district were navigable by small steamers throughout the year. Although the railways had to a large extent fulfilled the need of maintaining through communication between Calcutta and North-West India, the Nadia rivers still had a good deal of local importance, and the Government incurred an appreciable expense annually to keep them open. There was a daily steamer service between Calcutta and Kalna in Barddhaman, calling at Shantipur run by Messrs. Hoare Miller & Co. who also ran another bi-weekly service between Kalna and Murshidabad touching at Navadwip during the rains. Besides these services on the Bhagirathi, the same company along with

Steamers: Public transport by water

¹ J. H. E. Garrett, op. cit., pp. 99-100. ² A. J. King, op. cit., p. 124.

the River Steam Navigation Co. plied despatch steamer services between Damukdia and Godagari on the Padma. The vessels used to touch Kushthia and Pabna. Other through steamers between Pabna and Dacca called at Damukdia at irregular intervals. Country boats on their way from upcountry to Calcutta came down either the Bhagirathi or the Jalangi whichever at the time offered the better facilities for navigation.

NO, OF BOATS AND STEAMERS UNDER DIFFERENT BLOCKS IN NADIA DISTRICT: 1970-711

Name of Blocks		No. of Boats	No. of steamers
Krishnanagar I		- 75	 ,
Krishnanagar II		78	
Krishnaganj	5	200	
Nakasipara	Sin	210	-
Navadwip	(2) NO.	180	1
Kaliganj	700	104	-
Tehatta I	68,699	223	-
Tehatta II	April 1	35	New
Chapra	Y //h	150	
Karimpur	1	127	-
Ranaghat I	1000	70	
Ranaghat II	Metros	65	-
Shantipur		87	_
Hanskhali	सन्ध	पेव जयते 75	—
Chakdaha		473	*******
Haringhata		93	Berrange .
	Total	2,245	1

We are not sure when boats gave way to steamers. The first mention of a steamer using the Nadia rivers is in Branch Pilot S. Ransom's evidence before the Hugli Commission of 1844. "On referring to my private journal of 1830, I find we left Calcutta on the 14th October 1830 in the steamer 'Hooghly' towing the 'Soonamokee' with Lord W. Bentinck and suite; the steamer drew 4 feet 6 inches. On the 21st October we passed through the Jellinghy into the Ganges with nothing less than 6 feet; I observe by the reports of the Superintendent of those rivers, that no such

¹ Source: District Magistrate, Nadia.

amount of water is to be got now so late in the season as October and November, consequently the steamers are obliged to go via the Sunderbans, an increase of distance of 300 miles."

Apparently, the Jalangi and the Mathabhanga were seldom used for downward navigation owing to their sharp bends and restricted channels. Captain Brame stated: "The Jalangi was used for main line steamers proceeding from Calcutta to Goalundo or Assam during the rains from 1858 to 1866. It deteriorated about the latter date and the Mathabhanga was then used and was in use when I joined the Inland Service in 1882. It was then quite a good river and in 1884 I went up with the 'Shillong', one of our steamers towing three flats. It was never used for downward traffic, being too narrow and winding. It afterwards gradually deteriorated while the Jalangi improved and by 1890 it became so bad that we abandoned it in favour of the Jalangi and it has never been used since.... We used the Jalangi from 1891 for main line steamers towing flats to Goalundo and Assam up to 1896, but owing to increased trade with Barisal district it was found politic to send steamers by the longer Sunderbans' route, calling at Jalakhati, Nalchiti, Barisal etc. We continued to use the Jalangi for small craft proceeding to the Ganges districts up to 1907, from which date forward we ceased to use the river altogether." In a letter dated 5th January 1884, H. Williams of the Church Missionary Society, Ballabhpore, observed that the 'Sharasatti Khal' flowing from 'Jellinghee' was a large waterway and Bhugwan on its bank was a large and flourishing town, Bhugwan was ruined due to the decay of the Jalangi. Sonadar Khāl, leaving the Jalangi at Trihatta and further north the 'Morgangree' were formerly splendid communicable channels. The bed of the upper course of the once mighty Bhairav was under cultivation and its supposed junction with the 'Jellinghee' was absolutely obliterated.3

Excluding minor private ferries, there were in King's time 56 recognized public ferries in the undivided district. They were all controlled by the District Board. At present the Nadia Zilla Parishad controls 19 ferries the name and location of which is

FERRIES

4 Loc. cit.

¹ C. J. Stevenson-Moore and others, Report on the Hooghly River and its Headwaters, Vol. I, Calcutta, 1919, p. 63.

² Loc. cit. ³ A. Mitra, op. cit., p. liv.

given below.¹ All these ferries are maintained by lessees. During 1956-60, the District Board's revenue earnings from Canal and Ferry Receipts was Rs. 86,000.

LIST OF FERRIES UNDER THE ZILLA PARISHAD, NADIA

Name of Ferry	Location
Navadwip	Over the Bhagirathi-Jalangi junction in Navadwip P.S.
Nidaya	Over the Bhagirathi at Nidaya in Navadwip P.S.
Gholapara	Over the Bhagirathi at Gholapara in Navadwip P.S.
Agradwip with sub-ferry at Patuli & Khosalpur	Over the Bhagirathi at Patuli, Khosal- pur in Nakasipara P.S.
Panpara	Over the Bhagirathi at Panpara in Shantipur P. S.
Raninagar	Over the Bhagirathi at Raninagar in Chakdaha P.S.
Goari	Over the Jalangi at Goari in Krishnanagar P.S.
Krishnachandrapur with sub-ferry at Iswarchandrapur	Over the Jalangi at Krishnachandrapur and Iswarchandrapur in Tehatta P.S.
Abhoynagar	Over the Jalangi at Abhoynagar in Tehatta P.S.
Goruimari	Over the Jalangi at Goruimari in Karimpur P.S.
Gotepara	Over the Chariganga at Gotepara in Nakasipara P. S.
Madhpur	Over the Bhairav at Madhpur in Karimpur P.S.
Dharmada	Over the Gurguria Khāl at Dharmada in Nakasipara P.S.

¹ Source: District Engineer, Nadia Zilla Parishad,

(Contd.)

Name of Ferry

Location

Taldah-Gobindapur

Over the Mathabhanga at Taldah-Gobindapur in Krishnaganj P.S.

Bagdevi Bil

Over the Bagdevi Bil in Shantipur P.S.

Ranaghat and Barobazar sub-ferry Over the Churni at Ranaghat and Barobazar in Ranaghat P.S.

Gobra

Over the Bhagirathi at Gobra in Kaligani P.S.

Sivnivas

Over the Churni at Sivnivas in

Krishnaganj P.S.

Pulerghat

Over the Mathabhanga at Krishnaganj in Krishnaganj P.S.

Dhubulia, which is now a refugee colony, was, during World War II, a very large aerodrome. The district avails air transport facilities through Dum Dum Airport in 24-Parganas district which is very well connected with the principal towns of the district.

AIR TRANSPORT

TRAVEL AND TOURIST FACILITIES

Nadia district has lagged behind other parts of the State in the attractions and facilities offered to tourists. Kulia, Ghoshpara, Jasra, Kanthalpuli, Palpara in Chakdaha P.S.; Haradham, Debagram, Birnagar in Ranaghat P.S.; Phulia, Baganchra in Shantipur P.S.; Sivnivas in Krishnagani P.S.; Krishnanagar, Subarnavihar, Dignagar, Amghata in Krishna-nagar P.S.: Ballaldighi, Bamanpukur and Navadwip in Navadwip P.S.; and Debagram, Palashi in Kaliganj P.S. contain ancient monuments and draw numerous people during fairs. Ancient monuments and fairs are of considerable interest to the tourists; but, for want of tourist facilities these places have not developed as centres of tourist attraction. This lack of tourist facilities, however, is very often made up by the traditional hospitality of the resident population. For example, pilgrims attending the Ulai Chandi festival in the month of Baisākh are housed and fed by the residents of Birnagar. There are a number of old dharmasalas at Navadwip, Krishnanagar and Shantipur. In old times most of these were charitable institutions. Some of these are reserved for particular sects.

There are a few bungalows maintained by the Government and the Zilla Parishad.

Old time resthouses and dharmasalas

Dak Bungalows & Inspection Bungalows, etc.

LIST OF DAK AND INSPECTION BUNGALOWS IN NADIA DISTRICT¹

Name of Bungalows	Location	Maintained by
Krishnanagar Circuit House	Krishnanagar	Public Works Department
Inspection Bungalow with out-houses	**	TY
Krishnanagar Dak	On Krishnanagar to	Zilla Parishad
Bungalow	Shantipur Road	
Haringhata Inspection	On Haringhata to	,,
Bungalow	Kapileswar Road	
Bagula Inspection	On Bagula to Changkhali	>>
Bungalow	Road	
Chapra Inspection	On Chapra to Gongra Road	2)
Bungalow	,	
Majdia Inspection	On Krishnaganj-Dharapur	37
Bungalow	Road	
Ranaghat Inspection	On Krishnanagar-Ranaghat	"
Bungalow	Road	
Notna (Mamdagari)	On Teinpur-Gopalpur Road	• • • • • • • • • • • • • • • • • • • •
Inspection Bungalow	The state of the s	
Debagram Inspection	On approach road to	**
Bungalow	Debagram Station	
Palasipara Inspection	On Radhanagar-Palasipara-	,,
Bungalow	ghat Road	
Tehatta Inspection	On Gopalpur-Tehatta Road	,,
Bungalow	F374 9/D 7	
Bethuadahari Inspection	On Bethuadahari-Birpur	,,
Bungalow	Road	

Besides these, there are a number of inspection bungalows under the State Irrigation and Waterways Department. State Tourism Department provides some conducted tours through this district.

The railways were solely responsible for developing the cheap postal system as it exists today in the district. In 1870, a travelling post office was introduced on the East Indian Railway, but it was not till 1907 that the Railway Mail service was established.2

By 1872, there came to exist the Nadia Postal Division. With the development of railway signalling which was essential for the safe and efficient running of the trains, telegraph and telephone lines were developed between the main stations of the district. From the old Nadia District Gazetteer3 it is found that by 1910 the undivided district contained 143 post offices and

3 J.H.E. Garrett, op. cit., p. 103.

POSTS & TELE-GRAPHS AND TELEPHONES

¹ A. Mitra, op. cit., pp. 160-61.
2 Indian Railways: One hundred years, pp. 148-49.

529 miles of postal communication. The number of postal articles delivered in the year 1908-09 was 1,87,697 including 1,09,300 post cards and 49,828 letters. The value of moneyworders issued in that year was Rs. 15,87,646 and of those paid Rs. 25,59,647. The number of Savings Bank deposits was 16,300, the amount deposited being Rs. 13,18,196. There were eight postal-telegraph offices situated at (1) Krishnanagar, (2) Navadwip, (3) Ranaghat, (4) Shantipur, (5) Kumarkhali, (6) Kushthia, (7) Kushthiabazar and (8) Meherpur; 8,794 messages were issued from these offices in 1908-09. The offices at serials 5 to 8 are now in Bangladesh.

With the partition of Bengal in 1947, the Nadia Postal Division with its headquarters at Krishnanagar was abolished and amalgameted with the Presidency Postal Division with its headquarters at Barrackpore. The following year on 7th April 1948 Nadia Postal Division was reborn and on 10th May 1948 the Divisional Office was shifted from Barrackpore to Krishnanagar. The Nadia Postal Division then comprised besides the administrative district of Nadia, Bongaon subdivision of 24-Parganas district and Kalna and Katoya subdivisions of Burdwan district. On 1st January 1955 Kalna and Katoya subdivisions were tagged to the Burdwan Postal Division.

1. NO. OF POSTS & TELEGRAPHS OFFICES OF DIFFERENT CATEGORIES IN OPERATION IN NADIA DISTRICT: 1971

	Just prior to Independence	End of 1st Five Year Plan	End of 2nd Five Year Plan	End of 3rd Five Year Plan	As on April 1971
II 10m	→ →	щъ	M >		7
Head Office	1	1	1	2	2
Sub-Office	22	33	48	55	58
ED-Sub-Office	4	6	9	11	12
Departmental					
Branch Office	1	1	1	1	1
Extra Departmental					
Branch Office	103	123	173	211	254
Total	131	164	232	280	327

2. LIST OF HEAD POST OFFICES, SUB AND BRANCH POST OFFICES AS WELL AS NON-DELIVERY POST OFFICES AND THEIR THANAWISE LOCATION IN NADIA DISTRICT

Name of		Sub	-P.O. Non-	Branch	P.O. Non-
thana	H.P.O.	Delivery		Delivery	
Krishnanagar	1	5	7	29	3
(Kotwali)					
Navadwip	_	3	7	8	_
Chapra	_	2	_	9	-
Krishnaganj	_	2	_	9	_
Nakasipara	record.	3		26	
Kaliganj	-	4		15	
Tehatta		5mm		2 6	, -
Karimpur	- 6	3	22 1	21	_
Ranaghat	1 %	7	3	29	1
Chakdaha	-	5	2	28	
Haringhata	-	2	787 I	7	_
Hanskhali		5	₩ -	26	-
Shantipur		4	4 -	15	3
	—	de la la	170		
Total	2	50	2 0	248	7
	1	it in a			

Both Sadar and Ranaghat Revenue subdivisional headquarters of Nadia district and Bongaon Revenue subdivisional headquarters of 24-Parganas district are provided with postal and telegraph facilities. Similarly, the headquarters of Chakdaha, Karimpur, Nakasipara, Navadwip and Shantipur police stations in Nadia district and Gaighata police station under Bongaon subdivision of 24-Parganas district have been provided with postal and telegraph facilities. However, there is no departmental telegraph office or wireless station. Krishnanagar Head Post Office is the controlling office in regard to accounts matter of all the offices in the Nadia Postal Division. The following Sub Post Offices are combined Posts and Telegraphs Offices: (1) Bagchi Jamsherpur, (2) Bagula, (3) Banpur, (4) Belpukur, (5) Bethuadahari, (6) Badkulla, (7) Chakdaha, (8) Debagram, (9) Karimpur, (10) Madanpur, (11) Majdia, (12) Muragachha, (13) Navadwip, (14) Palashi, (15) Ranaghat, (16) Shantipur, (17) Shikarpur, (18) Srimayapur, (19) Bongaon and (20) Gaighata.

The receipt and despatch of ordinary articles in different Post Offices in the Division in 1962 were approximately 1,31,034 daily. The number and class of articles handled by the Post Offices of the Nadia Postal Division during the month of December 1962 is given below:

- (1) No. of money-orders issued 31,047 for value Rs. 15,95,990.78
- (2) No. of money-orders paid 40,655 for value Rs. 18,97,193.08
- (3) Registered articles booked 30,718
- (4) Registered parcels booked 1,657
- (5) Insured letters booked 411.
- (6) Insured parcels booked 294
- (7) No. of Broadcast Receiving Licences issued in the year 1961—7.710

As against these figures, the average monthly figures for 1970-71 show a significant decline.

Average monthly figures for 1970-71:

	ruge memory nominal restrictions	
(1)	No. of money-orders issued	18,221
(2)	No. of money-orders paid	26,248
	No. of registered letters and parcels received	21,260
	No. of registered letters and parcels despatched	14,592
	No. of insured letters received	181
	No. of insured letters despatched	55
(7)	No. of insured parcels received	118
(8)	No. of insured parcels despatched	95
	118-11-170NG 2/2/2-2/2-2	

In 1962, there were only 8 telephone exchanges within the Nadia Postal Division. By 1971, there were 4 new telephone exchanges.

During 1971-72, there were plans for opening 3 new post offices in urban areas and 45 in rural areas of the district, besides upgrading 5 existing Branch Post Offices into Sub Post Offices. Two telephone exchanges will also come up.

Future plans for the development of P & T services

The following is the list of the organizations of owners and employees in the field of transport and communications.

TRANSPORT
WORKERS'
ORGANIZATIONS

Regd. No.	Name of the Union	Address with affiliation of the union	Date of registration	Membership strength
5747	Bethuadahari Rickshaw Pullers' Union	P.O. Bethuadahari (H.M.S.)	22.4.63	Cancelled on 2.12.69
4045	Chakdaha Automobile Employees' Union	Sevagram, P.O. Chakdaha (A.I.T.U.C.)	3.5.57	153

¹ Source: Post Master General, West Bengal Circle, Calcutta,

Regd. No.	Name of the Union	Address with affiliation of the union	Date of registration	Membership strength
8202	Chakdaha Rikshaw Pullers' Union*	Lalipur, P.O. Chakdaha	24.4.69	120
8226	Chakdaha Rickshaw Mazdoor Union	P.O. Chakdaha	7.5.69	108
8471	Chakdaha Rickshaw Chalak Union*	P.O. Chakdaha	8,8,69	32
8608	Gayespur Rickshaw Chalak Samiti	P.O. Gayespur (H.M.S.)	30.9.69	70
7768	Haringhata Thana Bus Pari Bahan Karmi Samiti	Vill. Haringhata, P.O. Subarnapur	N.A.	N.A.
8260	Jagulia-o-Barasat Bus Pari Bahan Karmachari Samiti	P.O. Barajagulia	22.5.69	72
7428	Krishnanagar Rickshaw Sramik Union	P.O. Krishnanaga (H.M.P.)	r 12.9.67	75
3409	Navadwip Rickshaw Paddlers' Union	P.O. Navadwip (M.W.F.)	2.6.55	50
4135	Nadia District Motor Employees' Union	Krishnanagar (A.I.T.U.C.)	29.8.57	420
8474	Pragatishil Rickshaw Chalak Samiti	P.O. Kataganj (I.N.T.U.C.)	8.8.69	28
7739	Ranaghat Mahakuma Rickshaw Sramik Union*	P.O. Ranaghat	1.3.68	150
8143	Ranaghat Purbanchal Rickshaw Chalak Samiti	P.O. Ranaghat (U.T.U.C.)	17.3.69	80
8632	Ranaghat Motor Transport Workers' Union	P.O. Ranaghat	8.10.69	106

^{*} Not affiliated to any organization. N.A. — Not Available.

CHAPTER VIII

ECONOMIC TRENDS & MISCELLANEOUS OCCUPATIONS

In the Census of 1961, the entire population of the State was

placed under two livelihood classes, namely, workers and nonworkers instead of dividing it into earners and dependants on the basis of income and into livelihood classes on the basis of the income of the earners as was done previously. Economic pursuits for production of goods and services, and not receipt of income as such was considered to be the main function of a worker; and for this purpose persons doing family cultivation or household industry for an hour daily were also taken as workers. The workers to the extent of 27.16 per cent in Nadia district as against 33.16 per cent workers in the State were thus placed under nine industrial categories, which will be used in tables hereafter, namely, (I) cultivation, (II) agricultural labour, (III) mining, quarrying, livestock, forestry, fishing, hunting and plantations, orchards and allied activities, (IV) household indus-

LIVELIHOOD

PATTERN

DISTRIBUTION OF 1,000 WORKERS IN DIFFERENT CATEGORIES OF WORK IN NADIA DISTRICT: 1961

vis-a-vis the State.

try, (V) manufacturing other than household industries, (VI) construction, (VII) trade and commerce, (VIII) transport, storage and communications, and (IX) other services. The table below shows distribution of 1,000 workers in different categories in the district

Categories	V	West Bengal			Nadia District			
	Persons	Males	Females	Persons	Males	Females		
Total Workers	1,000	1,000	1,000	1,000	1,000	1,000		
I	385	388	368	429	451	110		
П	153	144	211	167	172	96		
m	50	44	90	34	36	11		
١V	42	30	122	90	67	425		
V	114	124	49	54	52	89		
VI	13	15	3	13	14	2		
VII	75	83	23	74	75	52		
vin	34	38	4	24	25	2		
IX	134	134	130	115	108	213		

The foregoing table reveals that the largest number of workers are engaged in cultivation followed by agricultural labour. The table in Appendix A further records distribution of 1,000 persons among the different categories of workers and non-workers in the district in 1961.

The table also reveals that in almost all the police stations the workers are mainly engaged in agriculture. In Navadwip police station, comprising an urban area, the workers in household industry predominate. Shantipur police station, another urban area, has also a good share of workers engaged in household industry. A detailed list of workers and non-workers in absolute figures as found in the district during the latest Census, that is, 1971 has been given in Appendix B.

The shift of occupations may best be studied when they are grouped under three sectors, namely, the primary, secondary and tertiary sectors. The primary sector is concerned with extraction of raw materials, agricultural produces, etc., while the secondary sector is concerned with the processing of raw materials and producing of material goods with the help of machines, etc. The tertiary sector concerns itself with the service workers of all kinds.

DISTRIBUTION IN SECTORS OF WORK OF 1,000 PERSONS OF EACH SEX IN NADIA DISTRICT: 1961

	,	West Be	ngal	Nadia District		
In Sector of work	1,000 Persons	1,000 Males	1,000 Females	1,000 Persons	1,000 Males	1,000 Females
Primary Sector: Categories I, II & III (except mining & quarrying)	190	303	62	171	326	7
Secondary Sector: Categories III (min & quarrying only), IV, V, VI & IX (only gas & electricity)		100	17	43	66	19
Tertiary Sector: Categories VII, VI and IX (except gas electricity)		137	15	58	103	10
Non-Workers	669	460	906	728	505	964

Sectorwise

With the development of an area the number of persons engaged in the primary sector declines by swelling the labour force of the secondary sector. In modern developed areas, again, a swelling of the tertiary sector in proportion to and at the cost of the other two sectors points towards sophistication of a particular area.

The table in previous page records the participation of workers per 1,000 population in the primary, secondary and tertiary sectors during 1961.

The table reveals that the workers engaged in the primary sector outnumber those in the other two sectors taken together in the district. Next in numerical importance come the workers engaged in the tertiary sector, followed by those in the secondary sector. Male workers are mostly to be found in the primary sector. Female workers, on the other hand, are predominant in the secondary sector, which has household industries as one of its constituents. Numerically, females occupy the second position in the tertiary sector and the negligible third position in the primary sector.

To be more precise about the distribution of workers in different sectors, the following table may be seen. The table indicates the distribution of 1,000 workers of each sex among the different sectors at both the district and the State levels.

DISTRIBUTION OF 1,000 WORKERS IN THE SECTORS OF WORK IN NADIA DISTRICT: 1961

	West Bengal			Nadia District		
	Persons	Males	Females	Persons	Males	Females
Total Workers	1,000	1,000	1,000	1,000	1,000	1,000
Primary Sector: Cate-						
gories I+II+III (except						
mining & quarrying)	574	561	660	630	658	217
Secondary Sector: Cate-	•					
gories III (mining &	,					
quarrying only)+IV+V	•					
+VI+IX (gas & elec-						
tricity only)	184	185	183	159	134	517
Tertiary Sector: Cate-						
gories VII+VIII+IX						
(except gas & electricity)	242	254	157	211	208	266

It will appear from the foregoing table that the primary sector has the largest number of workers, followed by the tertiary and the secondary sectors in both at the State and the district levels.

It may be seen that 63 per cent of the total workers are engaged in the primary sector. While males predominate in that sector, females to the extent of 51.70 per cent predominate in the secondary sector doing mostly household industries.

Households in rural and urban areas of the district incurred debts for several reasons, namely, agricultural activities, construction and repairs of residences, meeting of social obligations like marriage, funeral rites, medical expenses and performances of religious festivals, etc.

Loans are incurred from various sources, namely, the State Government, bank, cooperative societies, private money-lenders, relatives and traders, etc.

It appears that in 1959 (1366 B.S.), 42.62 per cent families in the rural areas of the district had outstanding loans and 61.11 per cent families took fresh loans in the same year. It also appears that of the agricultural families 6.65 per cent had outstanding loans and 6.48 per cent took fresh loans in that year. In the non-agricultural sector in rural areas, however, 11.32 per cent families had outstanding loans, while 7.55 per cent took fresh loans. That loans, consisting of cash and kind, expressed in monetary terms, play an important part in the economic life of the people of the district may be seen from the following table.

DEBTS AND REPAYMENTS IN RURAL AREAS OF NADIA DISTRICT: 1959

	Percentage of family reporting	Average per reporting family (Rs.)
Loan outstanding at the beginning of the year	42.62	419.53
Loan taken during the year	61.11	147.91
Loan repaid during the year	21.37	107.36
Loan outstanding at the end of the year	69.35	355.12

Indebtedness

The foregoing table indicates the unending circle of loans to which the families of the district are tied. The following table would further indicate the pitiable condition of the agricultural families who borrowed but could not repay the debts in the rural areas of the district during 1959.

DEBTS AND REPAYMENTS IN AGRICULTURAL FAMILIES IN RURAL AREAS OF NADIA DISTRICT: 1959

Percentage of Average per families reporting reporting family

	200	(Rs.)
Loan outstanding at the		
beginning of the year	39.97	292.18
Loan taken during	10	
the year	68.77	161.52
Loan repaid during		
the year	24.89	119.05
Loan outstanding at the	1 4144	
end of the year	72.99	271.60

The picture in the urban sector is not better either. In bigger towns like Krishnanagar and Navadwip, 42.04 per cent of all loanee families had also outstanding loans in 1959. Such loanee families constituted 11.16 per cent of the urban families. It is seen that 33.18 per cent families among total loanee families of these urban areas took fresh loans that year. Such families constituted 16.07 per cent of the total number of urban families. The following table further indicates the percentage distribution of families by amount of loan outstanding in 1959 with average outstanding amount of loan taken per family for different purposes in the urban areas (like Krishnanagar and Navadwip) of the district.

PERCENTAGE DISTRIBUTION OF FAMILIES BY AMOUNT OF LOAN IN THE TOWNS OF NADIA DISTRICT: 19591

Amount outstanding group (Rs.)	Percentage of families	Average outstanding taken (Rs.) per indebted family in the group
Nil	88.84	
1-200	2.24	150.65
201-500	2.63	410.40
501-1,000	1,49	726.53
1,001 & above	4.80	1,957.28
Loance families	11.16	1,065.79
All families	100,00	118.94

Cost of living

The cost of living has gone high with the rising prices in recent years. The following table would show the monthly expenditure level till 1970 on the base of 1950.

COST OF LIVING INDEX IN KRISHNANAGAR: 1956-701 (BASE: NOVEMBER 1950 == 100)

Monthly		0.00	State .			
expenditure level		A SECTION	XII con	bined		
Rs.	1956	1961	1967	1968	1969	1970
1-100	84.6	95.4	191,0	190.0	169.1	184,5
101-200	86.0	96,1	186,0	185.0	167.1	180.5
201-350	89.1	98.8	177.4	177.1	163.4	175.0
351-700	89.4	98.2	171.9	171.7	159.5	169.2
701 +	93,9	103.5	156.9	160,1	156,6	164.1

Among the working class of the district, the consumer price index was as follows in different years on the base of 1951 (100): 1956(85), 1961(91), 1968(196), 1969(172) and 1970(188).3

3 Ibid., p. 144.

Government of West Bengal, State Statistical Bureau, Family Budget Enquiry in Rural and Urban Areas of West Bengal: 1959-60 and 1960-61, Calcutta, 1967, p. 26.
Government of West Bengal, Bureau of Applied Economics and Statistics,

Statistical Handbook, 1970, Calcutta, 1971, pp. 145-49.

Employment

The number of people employed in different categories of work has already been stated. The other side of the picture is occupied by a large number of persons who are not employed. The Census of 1961, however, classified the non-working population consisting of full time students and children, persons engaged in household duties, dependants including infants and children and persons disabled from work for illness or old age, retired persons, beggars, vagrants, convicts in jail (relevant to our discussion) and persons who have not been employed before but are seeking employment for the first time, and persons employed before but now out of employment and seeking employment.

According to the Census of 1961, 72.84 per cent of the total population of the district was said to be non-workers as against the State percentage of 66.8 per cent. While male non-workers accounted for 50.53 per cent amongst themselves, females accounted for 96.37 per cent amongst themselves. The following table would reveal the distribution of a thousand non-workers under various categories in the district during the Census of 1961.

NON-WORKING POPULATION IN NADIA DISTRICT: 1961

Types of activities of non-working	Total		Rural		Urban	
population	Aale	Female	Male	Female	Male	Female
Total non-workers	1,000	1,000	1,000	1,000	1,000	1,000
Full time students or children attending school	288	78	252	59	426	165
Household duties		459		464		435
Dependants, infants and disabled	640	443	691	458	446	377
Retired, rentiers or ind- dependant means	14	3	9	3	30	3
Beggars, vagrants, etc.	8	8	8	6	11	13
Inmates of penal, mental and charitable institutions	s 19	9	22	10	9	2
Persons seeking employ- ment for the first time	18		12		41	3
Persons employed before but now out of employ- ment and seeking work	13		6		37	2

Apart from the first five categories, consisting mostly of dependant children, students and old men, it will be seen that

unemployment in both the rural and urban sectors is quite high as is apparent from the number of persons in the last two categories.

Age composition

The following table would reveal the number of non-working people in different age-groups in the district.

AGE COMPOSITION OF NON-WORKERS IN NADIA DISTRICT: 1961

		Non-workers per thousand		Rural		Urban	
Age-group	Male	Female	Male	Female	Male	Female	
All ages	505	964	490	968	571	944	
0-14	944	997	935	997	988	995	
15-34	200	946	161	954	355	914	
35-59	79	918	62	926	148	884	
60 ÷	372	957	319	958	594	954	
Age not stated	562	917	554	916	1,000	1,000	

By virtue of their age it is quite natural that persons belonging to 0-14 age-group and 60+ age-group are non-workers, that is, they do no productive work. They may, therefore, be left out from our discussion. The real working age-groups are 15-34 and 35-59. It will be seen that their number is quite high in those age-groups.

The following table would reveal the number of persons unemployed per thousand population. Such unemployed persons are aged 15 or more and were either seeking employment for the first time or were employed before but were out of employment and seeking work in 1961.

UNEMPLOYED PERSONS PER THOUSAND POPULATION (AGE ι_5+) IN NADIA DISTRICT : $\iota_{96}\iota_{1}$

	Persons	Males	Females
Rural	8	15	
Urban	42	72	8

The table reveals that the male unemployment is staggering in the urban sector. The following table further reveals the distribution between persons seeking employment for the first time and persons employed before but now out of employment and seeking work in the district in 1961.

DISTRIBUTION OF THOUSAND EMPLOYED PERSONS IN NADIA DISTRICT IN DIFFERENT CATEGORIES: 1961

				Employe	d before but
		Seeking 6	employment	now ou	t of employ-
Total	unemployed	for th	e first time	ment and	seeking work
Male	Female	Male	Female	Male	Female
1,000	1,000	533	503	467	497

It is clear from the table that though the persons seeking employment for the first time are quite large in number, the number of persons employed before but now out of employment and seeking work is not much less.

The following table reveals the number of agricultural labourers in the district by sex and broad age-group during the Census of 1961.

Agricultura! labourer

NO, OF AGRICULTURAL LABOURERS BY AGE-GROUP IN NADIA DISTRICT: 1961

				TATTAL	No. of female	Percentage of agri- cultural
				Sex	labourers per 1,000 male	labourers to total agricultural
0-14	15-34	35-59	60 +	Total Male Female	labourers	workers
5.9	40.6	27.8	3.3	77.6 74.7 2.9	38.8	27.98

It appears that the largest number of agricultural labourers in the district come from the 15-34 age-group. The following table, again, reveals the number of workers (including working proprietors) in registered factories in the district in 1960 and 1961.

WORKERS IN REGISTERED FACTORIES IN NADIA DISTRICT: 1960-61

	Persons other than				
Year	Workers	workers	Total		
1960	917	249	1,166		
1961	1,848	489	2,337		

It will be seen that the number of both workers and persons other than workers in 1961 is double the number in 1960. The

average daily number of workers employed in registered factories in the district may be seen from the following table.

DAILY WORKERS (IN THOUSANDS) IN REGISTERED FACTORIES IN NADIA DISTRICT: 1955-64

1955 1959 1962 1963 1964 1956 1957 1958 1960 1961 4.9 4.4 0.7 8.0 1.0 1.0 1.6 1.8 3.3 3.3

It will be seen that the number has progressively increased over the years except a little shortfall in 1964 over the preceding year.

PUBLIC ADMINISTRATION Government employees As Government employees constitute a sizable proportion of the persons engaged in white collar jobs, it will be interesting to study the distribution of such employees by different emolument groups in the district.

DISTRIBUTION OF WEST BENGAL GOVERNMENT EMPLOYEES BY EMOLUMENT IN NADIA DISTRICT (AS ON 31ST MARCH 1966)

Emolument groups (Rs. per month)

Above Grand 151-201-251-301-401-501-701-1,000 Total 1-75 101-76-100 150 200 250 300 4.00 500 700 1,000 1.046 4.372 3.624 2.107 803 518 379 133 136 48 18 13,184

No. of cmployees

The largest number is quite naturally occupied by the persons belonging to lower emolument groups. According to sex, there were 11,991 male and 1,193 female Government employees in the district in 1966. Females constituted 9.0 per cent of the district total and it is significant to note that next to Darjiling they occupied the second position in the State so far as their percentage of employment was concerned.

Employees in local bodies

Local bodies consisting of Municipalities, Zilla Parishad, Anchal Parishads, etc. had as many as 1,224 employees on 31st March 1968 in the district, of whom 17, 113, and 230 were respectively administrative, technical and clerical personnel. Durwans, sweepers, etc. employed by local bodies, numbered 864 that year in the district.

Employment Exchange The only Employment Exchange in the district is located at Kalyani. It was set up in 1958 and its jurisdiction extends to this district as also to the Bijpur police station of 24-Parganas district.

The National Employment Service is now the joint concern of the Union and the State Governments. The Union Government through the Directorate General of Employment and Training deal with matters relating to policy, procedure and co-ordination of the employment service. The State Government through its Labour Department exercise full control over the Exchanges through the Directorate of National Employment Service. The Employment Exchanges are thus directly responsible to the Directorate of National Employment Service.

The main function of the Employment Exchange is to help employment-seekers to find suitable employment and employers to secure suitable workers. The Exchange registers the names of employment-seekers according to their qualifications and experience in the appropriate occupation as laid down in the National Classification of Occupations. The names of such candidates are sent to employers when asked for.

Besides the Employment Exchanges (Compulsory Notification of Vacancies) Act, 1960 directing employers to notify their vacancies to the Employment Exchange, there is an executive order from the Government of India which directs that all vacancies in Central Government offices (other than those filled up through Union Public Service Commission or through open competitive examinations) should be filled up through Employment Exchanges unless the latter are unable to supply the requisite types of persons.

The kind of vacancies filled up through the Employment Exchange in this district is generally restricted to clerical and allied occupations and skilled, semi-skilled and unskilled categories of workers. The following table gives the picture of registrations, placements and notified vacancies and the figures in the Live Register at the Exchange at Kalyani between 1966 and 1970.

STATISTICS OF	EMPLOYMENT	EXCHANGE,	KALYANI:	1966-70
---------------	------------	-----------	----------	---------

	1966	1967	1968	1969	1970
No. of registration from January to December	13,331	12,470	12,575	24,759	18,622
No. of placements from January to December	1,165	471	515	592	253
No, of vacancies notified from January to December	1,225	685	854	1,404	597
Live Register at the end of December	19,152	19,271	18,934	23,637	30,743
Monthly average no. of employers using the exchange for each year since 1966	14.9	11,2	13,6	16.9	15.2

As the figures include the figures of Bijpur police station, which includes Kanchrapara municipality, one of the populous areas of

24-Parganas district, the picture in respect of Nadia district is not very clear from them.

The Exchange also collects regular information about the employment both in the private and public sectors under a programme named the Employment Market Information. Information collected under this programme helps the Employment Exchange to decide more accurately what type of personnel are in short supply. The information is essential for determining what course of vocational training should be provided for. Such information also helps the Exchange to measure the available employment opportunities.

The Exchange is responsible for the vocational guidance and employment counselling programmes which are designed to give intensive vocational guidance to those who seek such assistance. At the District Employment Exchange at Kalyani, there are both an Employment Market Unit and a Vocational Guidance Unit. An Employment Information and Assistance Bureau is also located at Kaliganj police station in this district. It has been operating since February 1971.

The rural areas of the district are now covered by 16 Community Development Blocks. They belong to two Stages, namely, Stage I and Post-Stage II.¹

Headed by a Block Development Officer, each Community Development Block office looks after the welfare activities of the villages under it. Such activities are concerned with animal husbandry and agricultural extension, health and rural sanitation, irrigation and reclamation of land, social education, communications, rural industries, cooperation, panchāyati rāj, etc. The table in Appendix D gives a description of each Block in the district so far as its area, number of villages under it, population and expenditure incurred in recent years are concerned.

Nadia, being a famous seat of Sanakrit learning for a long time, may still boast of its numerical superiority so far as teachers in both the rural and urban areas taken together are concerned. Next to Calcutta, Nadia district has 96 teachers per 10,000 persons of age below 20 years in 1961 against the corresponding State figure of 81. As to the number of teachers in the urban areas, it is only a paltry 236 against the aforesaid number of people. In absolute figures, teachers numbered 4,909 and 3,666 in the rural

Employment market information

Vocational guidance

COMMUNITY DEVELOPMENT

LEARNED PROFESSIONS

Teachers

A Block in the first year of its existence is in the Pre-Extension Stage, during the next five years in Stage I, during the next five years in Stage II and thereafter in Post-Stage II.

and urban areas of the district at the Census count of 1961. Of these teachers, the teachers in university numbered 228 including 164 belonging to the urban areas. Teachers in the secondary schools numbered 1,552, of whom 1,059 were in the urban areas. While teachers in the secondary schools were mostly to be found in the urban areas, teachers in middle and primary schools were most numerous in the rural areas. The teachers in the middle and primary schools numbered 5,191, of whom only 1,452 were found in the urban areas. As the nursery and kindergarten schools have sprung up in the urban areas in recent days, the teachers of these schools are mostly to be found in the urban areas. They numbered 249 in all in the district in 1961, of whom 237 were in the urban areas.

Physicians

There were 1,734 physicians, surgeons and dentists in the district in 1961, of whom only 15 were females and 786 were to be found in the urban areas. Allopaths numbered 414, of whom 204 were in the urban areas. Ayurvedic physicians numbered 277, of whom 149 were in the urban areas. Homoeopaths, numbering 340 in all, were also there, of whom 175 were in the urban areas. While the number of Allopaths includes the persons engaged in public hospitals and dispensaries over and above the private practitioners, the Ayurvedic physicians and Homoeopaths are mostly private practitioners treating patients with the traditional and cheaper medicines respectively.

Nurses, pharmacists

The para-medical personnel consisting of nurses, pharmacists and other medical and health technicians numbered 1,693, of whom 627 were in the urban areas. Nurses numbered 591, of whom 248 were found in the urban areas. Midwives and health visitors numbered 195, of whom only 15 were in the urban areas. Nursing attendants, however, numbered 298 including 13 in the urban areas. Pharmacists and pharmaceutical technicians numbered 287 including 166 of the urban areas. These people, however, included persons engaged in public hospitals and dispensaries.

Lawyers

While jurists numbered 411 including 355 of the urban areas in the district, legal practitioners and advisers numbered 189 including 156 of the urban areas.

Engineers

Architects, engineers and surveyors numbered 538 in all, of whom 359 belonged to the urban areas. Civil engineers (including overseers), however, alone numbered 293 including 184 belonging to the urban areas.

Chemists, physicists, geologists and other physical scientists numbered 29 including 10 belonging to the urban areas.

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NADIA

Writers, musicians, artists

Religious workers Biologists, veterinarians, agronomists and related scientists numbered 96 including 49 belonging to the urban areas in the district.

While artists, writers and related workers numbered 405 including 310 of the urban areas, musicians and related workers numbered 198 including 130 of the urban areas.

Ordained religious workers belonging to certain orders and sects numbered 327 including 89 of the urban areas, but non-ordained religious workers numbered 1,141 including 498 of the urban areas.

Astrologers and palmists numbered 164 in the district, of whom 112 were to be found in the urban areas.

Persons doing these learned professions form the middle-class intelligentsia of the district guiding the people in different walks of life.

DOMESTIC AND PERSONAL SERVICES Domestic and personal services are mainly confined to the services of governesses, tutors, private secretaries on the one hand and domestic servants and cooks on the other. The large number of agricultural population of the district does not, however, enjoy domestic services of the types mentioned above which they cannot afford. According to the Census of 1961, governesses, tutors and private secretaries to the extent of 1.70 persons per 1,000 households were found in the district. The State average for such services was 3.32 persons per 1,000 households. Domestic servants and cooks also numbered 14.87 per 1,000 households in the district and 41.91 per 1,000 households in the State. While governesses and private secretaries are almost unknown to an ordinary resident of the district, tutors, doing only part-time tution, may have been returned at the Census by their whole-time occupations.

Barbers

Launderers

Tailors

Of the persons doing other types of domestic and personal services, barbers and hair-dressers numbered 1,040 and 398 in the rural and urban areas of the district respectively. While hair-dressing saloons are mostly to be found in the urban areas, the traditional barbers $(n\bar{a}pit)$, belonging to a Hindu caste, are still to be found in the rural areas doing their family avocation.

Launderers, dry cleaners, etc. numbered 508 and 412 in the rural and urban areas of the district respectively in 1961.

Tailors, cutters, furriers and related workers numbered 1,349 in the rural areas and 1,373 in the urban areas of the district in 1961. It appears that they are evenly distributed in the rural and the urban sectors.

APPENDIX A

DISTRIBUTION OF 1,000 PERSONS AS WORKERS AND NON-WORKERS IN THE POLICE STATIONS OF NADIA DISTRICT: 1961

	į		;		ບິ	Categories	es	i	i		2
Police Station	Total		Ħ	Ħ	ΙΛ	>	IA	VII	ΛШ	×	workers
Chakdaha	267	93	14	9	17	31	4	23	6	43	733
Chapra	294	172	99	14	15	4		6	-	12	206
Hanskhali	280	174	47	9	12	œ	7	11	4	16	720
Haringhata	300	138	79	4	17	56	ec.	10	ю	20	700
Kaliganj	284	136	09	19	70	3	æ	13	7	70	716
Karimpur	276	159	54	6	15		-	12	1	22	724
Krishnaganj	286	140	42	22	17	8	7	21	7	32	714
Krishnanagar	254	85	37	7	15	11	7	23	6	\$	746
Navadwip	297	43	21	9	68	30	9	4	12	2	703
Nakasipara	273	143	26	12	17	'n	æ	13	7	22	727
Ranaghat	243	92	32	Ŋ	21	14	m	29	12	35	757
Shantipur	273	8/	38	10	55	22	9	23	∞	33	727
Tehatta	276	163	5.1	13	13	က	-	10		15	724

APPENDIX B

WORKERS AND NON-WORKERS IN NADIA DISTRICT: 1971

	Total Workers	al Kers	П	II	Ħ	ΙΛ	V(a)	V (b)	ΛΙ	VII	VIII	X	×
	T 5,52,	,548	2,08,535	1,52,285	16,055	122	29,864	34,149	5,229	40,145	14,727	51,437	16,77,722
Nadia District	R 4,52	4,52,656	2,05,353	1,45,878	13,899 2,156	58 54	11,883	17,031	2,908	21,328	9,242		3,18,167
) ;	933	1 34 549	07 577	8 856	19	13,569	16,506	2,884	21,659	6,556		9,82,285
Vaichmanagar	2,50	6101	1.33.707	95.702	8,173	37	9,473	8,750	1,425	10,440	2,162	14,150	8,39,047
Subdivision	; D	44,804	, 842	1,875	683	24	4,096	7,756	1,459	11,219	4,394	12,456	1,43,238
Varimour	R 47	888	25.786	15,526	725	er n	1,372	574	146	1,521	157	2,079	1,39,592
Rai miput Takatta	. 44 44	1.094	22,565	14,451	1,061	4	1,064	721	148	1,591	230	2,259	1,32,919
I Cliatea 17 e l'anni	: L	3CF 1	18 079	12 635	1.271		834	1,327	159	1,378	282	1,756	1,10,740
Kaliganj	? ₹ 4 F	335	17,693	14.958	1,133	4	924	857	225	1,941	267	2,333	1,19,897
W. 1	¥ 8	502	17.553	14 602	1 092	က	853	726	212	1,412	218	1,831	1,13,815
Nakasipara	× -	1 822	140	356	41	_	71	131	13	529	49	502	6,082
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	 	1,033	140	356	41	_	71	131	13	529	49	502	6,082
Jagadanandapur (INIM)	م م د	20,1	17.841	12 033	066	-	973	312	95	1,034	133	1,432	1,00,790
Chapra	4 4	0.00	7.007	4 811	736	4	402	310	100	1,017	345	1,331	51,798
Krishnaganj	4 E	0,400	2000	17.430	1 910	25	2,229	3,984	1,234	6,299	2,919	10,185	2,06,726
	20 4	7676	10 564	16.482	1.536	16	1,512	1,624	211	1,774	540	2,838	1,40,938
Krishnanagar	* 12	0,135	44	957	374	0	7117	2,360	1,023	4,525	2,379	7,347	65,788
	1	•											

APPENDIX B (Contd.)

Krishnanagar (M)	Þ	20,135	444	957			7117	2,360	1,023			7,347	65,788
	H	40,747	4,675	5,724			5,771	8,421	777			5,231	1,19,823
Navadwip	24	17,911	4,417	5,162			2,463	3,156	354			624	48,455
•	n	22,836	258	562			3,308	5,265	423			4,607	71,368
Navadwip (M)	Þ	22,836	258	295	268	14	3,308	5,265	423	6,165	1,966	4,607	71,368
	Ŧ	2,23,725	73,986	54,708			16,295	17,643	2,345			24,831	6,95,437
Ranachat	×	1,68,637	71,646	50,176			8,508	8,368	968			11,590	5,20,508
Subdivision	Þ	55,088	2,340	4,532			7,787	9,275	1,449			13,241	1,74,929
	Ή	36,658	8,696	7,821			8,653	2,351	655			3,374	1,07,653
Shantimir	24	20,285	7,77	6,683			2,470	761	71			879	58,233
	Þ	16,373	917	1,138			6,183	1,590	584			2,696	49,420
Shantipur (M)	Þ	15,351	908	1,068			5,927	1,513	268			2,363	45,815
Phulia (NM)	D	1,022	111	70			256	77	16			333	3,605
,	Ţ	27,072	14,092	7,711			748	965	93			1,735	87,134
Hanskhali	24	25,530	13,889	7,486			689	445	78			1,357	81,877
	Þ	1,542	203	225			59	151	15			378	5,257
Bagula (NM)	Þ	1,542	203	225			. 59	151	15			378	5,257
	H	73,486	23,522	16,237			4,463	7,181	989			8,750	2,37,553
Ranaghat	æ	56,940	22,922	15,411			3,365	4,085	447			4,522	1,82,620
	Ω	16,546	009	876			1,098	3,096	239			4,228	54,933
Taherpur (NM)	n	2,750	89	321			170	778	48			619	10,354
Birnagar (M)	Þ	2,488	436	416			265	236	12			330	8,072
Ranaghat (M)	Þ	11,308	96	88			363	2,082	179			3,219	36,507

APPENDIX B (Cond.)
WORKERS AND NON-WORKERS IN NADIA DISTRICT: 1971

	-	44,802	15,469	11,799	743	10	1,714	3,779	450	4,056	1,671	5,111	1,41,242
Chakdaha	ď	34,136	15,021	10,726	602	ĸ	1,410	1,594	92	1,738	610	2,338	1,05,563
	D	10,666	448	1,073	141	2	304	2,185	358	2,318	1,061	2,773	35,679
Chakdaha (M)	ם	10,666	448	1,073	141	8	304	2,185	358	2,318	1,061	2,773	35,679
,	Ę	16,992	2,179	2,995	1,273	7	7.1.7	3,030	325	1,461	859	4,586	50,987
Kalyani	×	7,031	2,007	1,725	296		134	777	72	362	238	1,420	21,347
	C	9,961	172	1,270	716	7	143	2,253	253	1,099	621	3,166	29,640
Kalyani (NM)	n	5,590	104	879	835	4	39	915	132	379	237	2,066	12,720
Kataganj & Gokulpur				লঃ									
Government Colony				यत	7	I							
(NW)	מ	1,757	21	42	110	m	31	594	59	274	178	445	6,452
Gayespur Government													
Colony (NM)	ב	2,614	47	349	32	:	73	744	62	446	206	655	10,468
Haringhata	2	24,715	10,028	8,145	2,651	7	440	902	136	992	335	1,275	70,868

M—Municipality; NM—Non-municipal town; I—in cultivation; II—in agricultural labour; III—in livestock, forestry, fishing, hunting and plantations, orchards and allied activities; IV—mining and quarrying: V(a)—manufacturing, processing, servicing and repairs (other than household industry); VI—construction; VII—trade and commerce; VIII-transport, storage and communications; IX-other services; X-non-workers.

APPENDIX C

COMMUNITY DEVELOPMENT BLOCKS IN NADIA DISTRICT

Sub division	Block	Stage	Area (Sq. miles)	No. of villages in the Block	Population (1969)	Total expenditure for welfare activities in 1969-70 (Rs.1,000)
	Shantipur	Post-Stage II	75.1	79	1,12,432	ΞZ
	Chakdaha		125.8	162	1,86,038	Z
Ranaghat	Hanskhali	•	103.3	80	84,065	ΙΪΝ
	Ranaghat-I	सन	64.2	76	1,15,985	Z
	Ranaghat-II	यमे	106.9	117	1,35,672	Ν̈́
	Haringhata	Stage II	65.0	8	67,324	7.50
	Kaliganj	Post-Stage II	124.0	127	1,12,325	6.50
	Krishnaganj	2	58.4	54	52,034	80.6
	Karimpur	•	173.6	147	1,39,193	3.38
Sadar	Nakasipara	• • •	139.9	109	1,19,176	12.04
	Navadwip	Stage II	40.2	93	51,998	5.56
	Chapra		130.8	46	1,10,754	15.07
	Tehatta-I	•	95.4	62	81,388	4.46
	Tehatta-II	**	0.89	34	52,415	6.76
	Krishnanagar-I	•	93.0	93	91,319	12.50
	Krishnanagar-II	*	45.46	63	68,571	14.17

CHAPTER IX

GENERAL ADMINISTRATION

Very little information of the nature of administration of early times is available. Little is also known of the administrative system under the Afghan rulers. We know from literary sources that there was a *Kazi* at Navadwip and another at Ambua (Kalna) who were Judge, Magistrate and Police Chief all rolled into one. The portions of the district of Nadia, that came under the sway of the Afghans, were administered by these two *Kazis*.

Under the Mughals the police administration remained under the Zamindars who also dispensed summary justice in petty cases, both civil and criminal. These were more in the nature of arbitration. The concept of general administration had not grown at the time. The Mughal administration was mainly concerned with the collection of the revenue and defence. The Fouidar stationed at Satgram, under whose jurisdiction most part of Nadia district lay, was essentially a military officer, though he functioned also as a Deputy Governor and lent his force, if necessity arose, for the collection of revenue. The general jurisprudence of the State followed the Quranic laws as interpreted in the Sunna and the Hadith. The criminal law administered was the Islamic law for both Hindus and Muslims. In the case of Hindus, the civil law and personal law were their own common law. appointed the Chief Kazi (Oazi-ul-qazat) with powers to appoint subordinate Kazis with the sanction of the king. They were stationed at provincial, district and pargana headquarters. Every city and even some large villages had a Kazi. There was an office of Mir'adl who took cognizance of cases and actions not provided by the Islamic religious law. This office was under the general superintendence of the Chief Kazi.

The criminal law administered was the Hanafite system. Crimes were classified under three major heads: (1) crimes against God, (2) crimes against the king and (3) crimes against private individuals. The first category included apostacy, adultery or fornication, drinking wine, theft, highway robbery and robbery with murder. Apostacy, adultery by a married woman and robbery with murder were punishable with death. Theft and robbery were punished by amputation of the limbs. Offences like murder or severe bodily injury were, however, treated as private offences and the next of kin of the dead man or the in-

jured had the right of retaliation or pardon. Thus, it was possible for a woman to get her husband murdered by her paramour, then pardon the paramour and marry him. A parent or paternal or maternal ancestor could murder a child of linear descent and no retaliation was incurred because the slain derived existence from the slayer. For the murder of a slave by the master no punishment was called for because the right of retaliation rested in the master of the slave. The rule of evidence laid down that in the trial of a Muslim, evidence of non-Muslims were inadmissible.

While the Zamindar had his own police and also the village police, the Foujdar was the head of the State police organization and under him were the Thanadars under the local control of a Sikdar. These thanas were approximately situated parganawise. In later years, when Mughal administration broke down, there were frequent clashes between the Zamindars' police and the Foujdars' police.

After the acquisition of the *Dewani*, the East India Company posted European Officers in the districts who were called Supravisors. Though mainly intended for the collection of revenue, the articles of instruction issued to these officers included the basic principles of general administration. But these officers could not be effective. There were legal lacunae. The East India Company, by virtue of the sanad granting the *Dewani*, acquired the right over revenue collection. But in law, general administration and criminal justice remained with the *Nawab Nazim*. The more sober sections of the servants of the East India Company realized that if they were to collect the revenue successfully, they must give protection and good government to the people.

The Supravisors were not only required to see the requirement of law and justice executed, but also to eliminate corruption, and abolish arbitrary fines. The local officers were to be called upon to produce their credentials and usurpers of judicial authority removed. Records of all cases were to be kept in the Sadar kutchery and a monthly return sent to Murshidabad. But the Supravisors failed to make any appreciable impression. The men employed were very junior officers of the company and they hardly had any training in administration. Moreover, being servants of a mercantile company where a good deal of corruption prevailed, they busied themselves more in making personal fortunes by engaging in private trade than in taking administration seriously. Further, collection of revenue was then in the hands

GROWTH OF
DISTRICT ADMINISTRATION UNDER THE
EAST INDIA
COMPANY

of the Aumils appointed by Mohammed Reza Khan and in the collection of the revenue many a misdemeanour committed had to be overlooked.

In 1772, after Warren Hastings became the Governor, the Supravisors were designated Collectors. By a Regulation of 1772, a mofussil Dewani Adalat and a Foujdari Adalat were established in each district. The mofussil Dewani Adalat was to decide disputed accounts, contracts, partnership, demands of revenue. The Collector was to preside over this court on behalf of the Company in their capacity as the King's Dewan. An Indian Dewan nominated by the President and the Council of the Company was to assist the Collector. In the mofussil Foujdari Adalat, the Kazi or the Mufti of the district was to preside and two Moulavis were to assist in expounding the law. The court exercized jurisdiction in all cases of murder, assault, frays, quarrels, adultery, and breaches of the peace. The court was to determine how far the delinquents were guilty of the offences they were charged with and the breach of the law. The Collector was also to attend to the proceedings of this court and see that all necessary evidence (witnesses) were summoned and examined and due weight given to the testimony. It was also the duty of the Collector to see that the decisions were fair and impartial according to the proof produced in course of the trial and no case heard or determined except in a regularly assembled open sitting of the court. This court was empowered to inflict corporal punishment, labour on the roads, etc. But where capital sentence was called for, the sentence required the sanction of the Nazim. The Collectors were further required by another Regulation to keep a locked box at the Kutchery under his own key in which complainants could drop their petitions at any time of the day or night. On each court-day the Collector was to open the box and get the petitions brought up to his presence. But in 1773, the Board of Directors of the East India Company directed that the Collectors (Supervisors) be withdrawn forthwith and all Collectors were withdrawn by the early part of 1774. By Regulation XX of 1773, the Indian Naib Dewans of the districts were to preside over the Dewani Adalat in place of the Collector after his recall and transmit the proceedings to the Provincial Council. The Foujdari Adalat remained as constituted by the Regulation of 1772 devoid of the Collector's supervision.

Apart from their suspicions about the Collectors, the Board of Directors' decision to recall the Collectors was mainly motivated

by reasons of economy because with the reforms made by Hastings the civil charges were increasing and the Company as a commercial undertaking subordinated general administration to the interest of revenue and profits.

The failure of the Mughal administration and the attrition of the powers of the Zamindars by the farming settlements¹ led to general disorder in the districts and dacoity became rempant. To stop these disorders, Hastings created the office of the Foujdar at 14 stations in Bengal. They were appointed for the protection of the inhabitants, apprehension of the robbers and dacoits within their respective areas and for transmitting constant intelligence regarding the peace of the country to the Presidency. Nadia district was distributed amongst several Foujdari Chaklas namely, Katoya, Itchakhada and Hugli.

Mohammed Reza Khan was appointed the *Naib Nazim* and in January 1776 devised a new plan for the criminal administration. The *Foujdars* were allowed to remain. The criminal courts of the districts were reconstituted and their total number came to 23 of which one was at Krishnanagar. In addition to the *Kazi* and *Mufti*, the new plan provided for a *Daroga* for each court and four *Naib* or Assistant *Kazis* were appointed for each court.

In organization of the police, Reza Khan provided a Foujdari thana at the chief town of every district. The Foujdar under the new plan was to act as the Chief Police Officer, responsible as before, for law and order, including the apprehension of offenders. In criminal cases he was to make local investigation and send a suntat-i-hal report to the criminal court which tried the criminals. The powers of the criminal court remained as before and capital sentences had to get the ratification of the Naib Nazim. In the execution of his duties, the Foujdar had powers similar to that of a police-cum-magistrate. A prison was attached to each Foujdar thana as well as to each district criminal court. The Foujdar was also the superintendent of the prison.

The office of the Foujdar was abolished in 1781 and the Company's covenanted servants, who were primarily Judges of the Dewani Adalat, were invested with the powers of Magistrates. Their functions were restricted to the apprehension of criminals and committing them to the courts of the Foujdari Adalat which continued to function under the supervision of the Naib Nazim and the Nizamat Adalat at Murshidabad. The police of the country thus became independent of the Nizamat.

¹ Vide, Chapter X.

The Judge-Magistrate's police organization consisted of one Nazir, a jail officer, a few clerks and between 25 to 150 barkandazes as the situation demanded. These barkandazes were generally armed with lāthis and swords but occasionally also had matchlocks. The old system of Zamindari police was revived and by a proclamation the Zamindars were directed under pain of severe punishment to establish thanas at such places as the Magistrate directed and to bring offenders to book. If any Zamindar was proved to have committed robbery, dacoity or murder or to have connived at any such offence, he was to be punished with death.

The half-hearted measures and frequent changes in the pattern of the administration shows indecision and hesitancy in the management of affairs in India. Though the Company became the virtual sovereign, it was not declared so by the British Parliament and it was considered expedient to maintain the Mughal sovereignty in form.

The reforms of Hastings suffered under these limitations and he, therefore, tried to improve the administration within the frame-work of the Mughal system. It remained for Cornwallis to make a complete departure from the past and forge ahead a new administration.

Though the British Parliament in the Regulating Act did not accept the sovereignty of the Company nor avow sovereignty of the British Crown, many of the steps taken by Cornwallis would show that he assumed sovereignty. Many of the existing Muslim laws were changed by him. The office of the Naib Nazim held by Mohammed Reza Khan was abolished and the Nizamat Adalat was transferred to Calcutta to be presided over by the Governor-General and members of the Supreme Council assisted by a Chief Kazi and two Muttis to declare the law on the subject. Many heinous offences like murder and severe hurt which the Muslim criminal jurisprudence treated as personal offences were now declared to be offences against the State and the right of pardon exercizable by the relatives was abolished. Instead, the British common law principle of the King's peace was promulgated. In some offences like theft, etc. the Muslim law required amputation of limbs. This was substituted by hard labour or fine and imprisonment. Under the Muslim law the evidence of non-Muslims was not admissible in the trial of Muslims on criminal charges. The religious persuasion of witnesses henceforth was no bar to the admissibility of their testi-

mony. These changes in the law were made by executive orders in 1790 and embodied in Regulation IX of 1793.

The Darogas of the criminal courts were struck off and four criminal Courts of Circuit similar to the British Court of Assizes were set up to hold two six monthly circuits in each district in a year. The Judge-Magistrate was to produce the prisoners before these Circuit courts which tried the cases and after determining it sent the records to the Nizamat Adalat at Calcutta for sentence.' The British-born subjects were not amenable to these courts and were only under the jurisdiction of the Supreme Court

The civil and revenue jurisdiction of the Collector was taken away by Regulation II of 1793 and these were vested in the Zilla Judge. The Collector was, however, authorized to continue to try petty offences punishable with inflicting up to thirty rattans or imprisonment up to thirty days.2

The police reforms of Cornwallis dated 2nd December 1792 had three salient features. Firstly, the Zamindari police establishment was abolished; secondly, the districts were divided into compact areas of about twenty or thirty sq. miles with a thana in each such area having Government appointed Darogas with a muharrir, a jamadur and about ten barkandazes, acting under the direct supervision of the Magistrate; thirdly, the village choukidar, though still appointed and paid by the Zamindar was declared subject to orders of the Darogas.3

The system of administration introduced by Cornwallis gradually developed into the elaborate British system of administration by about 1870 and it is this pattern of administration that is even now continuing except for some minor changes. The developments since the time of Cornwallis are briefly noticed.

The four Courts of Circuit could not dispose of the cases as expeditiously as required and the number of cases were mounting and prisoners languished in jails without trial for even more than a year. The Board of Revenue at Calcutta was finding it difficult to dispose of all revenue matters from the districts. Accordingly, in 1829, the posts of Commissioner of Revenue and Circuit were created.4 The powers of the Court of Circuit were delegated to the Commissioner. The Commissioners were

Criminal trials

¹ Regulation VIII of 1794.

<sup>Regulation IX of 1793.
Regulation XXII of 1793.
Regulation I of 1829.</sup>

also made Superintendent of Police of the Division. There were twenty divisions and Nadia was included along with Murshidabad and Birbhum in one such division. This combination of functions in one officer was considered sufficient to bring about more efficient administration. But it was soon realized that the revenue work suffered badly and so the powers of the Court of Circuit were transferred to the Zilla Judge. This was the beginning of the office of the Sessions Judge. The Regulation VII of 1831 did not specifically define the powers of the Sessions Judge. It was in 1871 that the powers of the Sessions Judge were specifically determined by legislation. In the meantime, considerations of expedition of trial in criminal cases led to the increase in the power of the Magistrates and by 1831 the Magistrate who was a covenanted servant of the Company could try cases of burglary, theft, receiving stolen property, escaping from lawful custody and could inflict a punishment up to two years of hard labour and thirty rattans as corporal punishment.2 European Assistant Magistrates were empowered to try some of the cases and inflict a punishment up to six months' imprisonment and corporal punishment up to thirty rattans.3 Indians came to be appointed as Deputy Collectors mainly for revenue work.4 During the Governor-Generalship of Lord William Bentinck, these Indian Deputy Collectors were given the power of trial of petty cases and inflict punishment up to one month's imprisonment and thirty rattans as corporal punishment. Collectors had remained divested of judicial powers since the time of Magisterial judicial powers were restored to them Cornwallis. by Lord Dalhousie in 1854.5 Thus emerged the District Magistrate and Collector of the district who, in later years, became the pivot of district administration. A Superintendent of Police for each district was appointed in 1861 following the recommendations of the Police Commission in 1860.

PRESENT DIS. TRICT SET-UP

The general administration of the district is in charge of the District Magistrate and Collector who is under the administrative control of the Commissioner of the Presidency Division with headquarters in Calcutta. Subject to the control and supervision of the District Magistrate, the general administration in the only

Regulation VII of 1831.
Regulation XII of 1818, Regulation VIII of 1830.
Regulation III of 1821, Regulation IV of 1822.
Regulation IX of 1833.
Despatch by Lord Dalhousie, 24th April 1854.

outlying subdivision of the district, Ranaghat, is in charge of the Subdivisional Officer. At the headquarters station, the District Magistrate and Collector is assisted by an Additional District Magistrate for general administration other than revenue and by another Additional District Magistrate, who is also vested with the powers of the Collector under the Estates Acquisition Act, for the revenue administration and also by a Sadar Subdivisional Officer. The District Magistrate and Collector and the Additional District Magistrates are members of the Indian Administrative Service while the Subdivisional Officer of Ranaghat is either a junior member of the Indian Administrative Service or a member of the West Bengal Civil Service.

There are eight Deputy Magistrates and Deputy Collectors and six Sub-Deputy Magistrates and Sub-Deputy Collectors posted at the Sadar station and three Deputy Magistrates and Deputy Collectors and three Sub-Deputy Magistrates and Sub-Deputy Collectors at Ranaghat excluding the Subdivisional Officer. Of this number of Deputy Magistrates and Deputy Collectors and Sub-Deputy Magistrates and Sub-Deputy Collectors, three are employed as Executive Magistrates at Sadar and two at Ranaghat. Others work as an Administrator, Zilla Parishad; a District Panchayat Officer; a Special Land Acquisition Officer; a Regional Transport Officer; a Special Officer for Scheduled Castes and Scheduled Tribes Welfare and a District Compensation Officer who are all posted at Sadar. The District Magistrate is also in charge of planning and development work in the district and as such he supervises the work of all government departments in the district except the Judicial Department.

The Superintendent of Police is assisted by an Additional Superintendent of Police. They are both members of the Indian Police Service and are stationed at Sadar. At Ranaghat, a Deputy Superintendent of Police, usually styled the Subdivisional Police Officer, looks after the police administration in that subdivision under the control of the Superintendent of Police. There are three Deputy Superintendents of Police posted at Sadar. One looks after the District Intelligence Branch, another looks after the discipline and training of the staff while a third looks after the headquarters office, police lines and barracks and other sundry matters and generally assists the Superintendent of Police.

The old divisions of the office of the District Magistrate and Collector were (1) Judicial Munsikhana, (2) Revenue Munsikhana,

(3) Treasury, (4) General Department. With the separation of the judiciary from the executive and abolition of Zamindari, much of the original significance of these divisions is lost. Nevertheless, these divisions are still maintained in form. Judicial Munsikhana deals with the Magistracy, licences under the Indian Arms Act, the Motor Vehicles Act, the Places of Public Amusement Act, Cinematograph Act, the Explosive Substances Act, the Petroleum Act, etc. It also deals with the Chaukidari matters and Local Self-Government matters. The Revenue Munsikhana, except for some residuary work, has converted itself into the Estates Acquisition and Land Reforms office. The Treasury in Nadia has been taken over by the State Bank of India and as such there is no Treasure Chest under the Treasury Officer at present. The Treasury, however, retains its accounts section. The receipts and payments are made by the bank, while the accounts thereof are maintained by the Treasury Officer on the basis of challans and schedules of receipts and schedules of payments. The bills for payments of demands on the Government are passed for payment by the Treasury Officer. The Treasury Officer is usually a Deputy Collector or a senior Sub-Deputy Collector. All correspondences are dealt with by the General Department which also deals with work not relegated to other departments.

Other State Government departments Agriculture

The chief officer in charge of Agriculture in the district is the Principal Agricultural Officer stationed at Krishnanagar who is under the Joint Director of Agriculture, Kalyani Range with headquarters at Kalyani within the district. Three Subject Matter Specialists look after distribution of fertilizers, plant protection and pest control, seed distribution and other sundry affairs. The old park known as Company Bagan has been converted into a horticulture research station in charge of a Horticulturist where research in different methods of grafting and fruit growing is being carried on. An Agronomist with the rank of an Additional District Agricultural Officer collects and compiles soil data. There are three government agricultural farms at Ranaghat, Phulia and Kalyani, each under a Farm Manager with subsidiary staff. There is also a jute seed multiplication farm at Bhajanghat under a Farm Manager. A Sugercane Specialist is posted at Bamandanga near Bethuadahari. Assistant Jute Development Officer and an Assistant Plant Protection Officer are posted at Kalyani. There is a Gram Sevak training centre at Phulia under a Principal where there

is also an Agronomist. Kalyani is the headquarters of the Superintendent of Agricultural Marketing, Eastern Range. The District Agricultural Marketing Officer for Nadia and Murshidabad is stationed at Berhampur (Baharampur) in Murshidabad and under him two Subdivisional Agricultural Marketing Officers are posted at Krishnanagar and Ranaghat. A Tanks Improvement Officer for the purpose of reclaiming derelict irrigation tanks is posted at Krishnanagar.

At Kalyani is located the headquarters of the Executive Engineer (Agri-Irrigation), Eastern Division; Executive Engineer (Agri-Irrigation), tube-well drilling and development; and Executive Engineer (Agri-Mechanical), Eastern Division. At Krishnanagar are posted two Assistant Engineers (Agri-Irrigation) for the north and south divisions of the district, while the Assistant Engineer (Agri-Irrigation) for tube-well drilling and for civil works is stationed at Kalyani. The Assistant Engineer (Agri-Mechanical) is stationed at Krishnanagar.

Sixteen Community Development Blocks cover the district. These are (i) Krishnanagar I, (ii) Krishnanagar II, (iii) Navadwip, (iv) Kaliganj, (v) Karimpur, (vi) Krishnaganj, (vii) Nakasipara, (viii) Tehatta I, (ix) Tehatta II and (x) Chapra in the Sadar subdivision; and (xi) Ranaghat I, (xii) Ranaghat II, (xiii) Shantipur, (xiv) Chakdaha, (xv) Hanskhali and (xvi) Haringhata in the Ranaghat subdivision. Each Block is under a Block Development Officer who is assisted in the several fields of development works by the Agricultural Extension Officer, Inspector of Cooperative Societies, Industrial Extension Officer, Panchayat Extension Officer, Veterinary Assistant Surgeon, Fishery Extension Officer, Social Education Officer and a Sub-Assistant Engineer. There is also a Lady Social Education Officer for womens' programmes. There is a Gram Sevak at each Panchayat area and two Gram Sevikas for womens' programme at the Block headquarters.

There is a District Live-stock Officer at Krishnanagar working under the Superintendent of Live-stock, Eastern Range with headquarters at Kalyani. There are two central semen collection stations in the district, each under a Superintendent, one at Bethuadahari and the other at Haringhata. There are eleven artificial insemination centres, each under an Artificial Insemination Officer located at Krishnanagar, Bethuadahari, Debagram, Palashi, Haringhata, Mohanpur, Phulia, Madanpur, Chakdaha, Ranaghat and Hanskhali. There is a Poultry Farm at Ranaghat and a Central Live-stock Research-cum-Breeding centre at

Agricultural Engineering

Community Development

Animal Husbandry

Haringhata milk colony, each under a Superintendent. At Kalyani there is a Fodder Farm. There are two milk collection-cum-chilling centres at Phulia and Bethuadahari, besides the main centre at Haringhata milk colony.

Veterinary Services The Superintendent, Veterinary Services, Krishnanagar Range is stationed at Krishnanagar and under him are the District Veterinary Officer, the Veterinary Inspector in charge of the district hospital, Assistant Veterinary Surgeon attached to the hospital and two Itinerant Veterinary Surgeons.

Cottage and Small Scale Industries The Deputy Director of Industries (Handloom), Presidency and North Bengal Range is stationed at Krishnanagar. The district officer of the department is the District Industrial Officer, also stationed at Krishnanagar. The Industrial Extension Officers at the Block level are under the District Industrial Officer. Besides these, there are two Handloom Development Officers, one stationed at Shantipur and the other at Navadwip. There is a Central Sericulture Nursery at Ranaghat. At Kalyani, there is a Training-cum-Demonstration Centre for powerloom under a Superintendent. There is a Wood Industries Institute at Kalyani under a Superintendent. There is also a Wood Industries scheme at Kalyani under a Works Manager.

Cooperation

The Assistant Registrar of Cooperative Societies, Nadia, stationed at Krishnanagar, is in charge of the cooperation work in the district. He is assisted by a District Auditor of Cooperative Societies and by the Inspectors of Cooperative Societies attached to the Blocks.

Development and Planning

The Kalyani Township is under the Department of Development and Planning. The office of the Chief Engineer, Kalyani Township is located at the New Secretariat Building in Calcutta. The offices of the Superintending Engineer, Kalyani Township; the Executive Engineer, Kanchrapara Area Development Division; and the Executive Engineer, Kalyani Division are located at Kalyani. There is a Work-cum-Orientation Centre under a Director at Kalyani which is also the headquarters of the Member-Secretary of Kalyani Sub-committee of the Brick and Tile Board.

Education

The organizations under the Education Department include the Government College at Krishnanagar, a Sanskrit tôl at Navadwip, two Junior Basic Training Colleges at Bara-Andulia and Dharmada, the Krishnanagar Collegiate School, the Krishnanagar Girls' High School and a Women Teachers' Training College at Krishnanagar. The District Inspector of Schools

with his complement of Assistant Inspectors and Sub-Inspectors comprise the Inspectorate in the district for Secondary and Primary Education. The District Inspector of Schools is also the ex-officio Secretary of the District School Board. There is also a District Social Education Officer who looks after the district and the rural libraries. The District Officer for Physical Education and Youth Welfare looks after the games, sports and general youth welfare schemes.

The Superintendent of Excise with his staff of Inspectors, Sub-Inspectors and Petty Officers is in charge of the realization of Excise Revenue in the District as well as in charge of the prevention work. The Excise Superintendent is under the general supervision of the Collector of the district.

The office of the Commercial Tax Officer, Krishnanagar charge is located at Krishnanagar. This Officer is in charge of the realization of sales taxes under the Bengal Finance (Sales Tax) Act of 1941, the West Bengal Sales Tax Act 1954, the Bengal Motor Spirit Sales Taxation Act of 1941, the Central Sales Tax Act 1956, and the Bengal Raw Jute Taxation Act 1956.

The office of the Agricultural Income Tax Officer, Nadia Range is located at Krishnanagar.

The District Fishery Officer, assisted by one Assistant Fishery Officer, is in charge of the work of the department in the district. The office of the Superintendent of Fisheries for development of the derelict fisheries in the State is also located at Krishnanagar. There is a Fish Seed Farm under a Farm Manager at Krishnanagar. An Experimental Research Station under a Superintendent of Fisheries is located at Kulia-Kalyani.

No place in the district of Nadia is under statutory rationing. The District Controller of Food and Supplies for Nadia and Murshidabad is stationed at Krishnanagar. Under him there are two Subdivisional Controllers of Food and Supplies, one at Krishnanagar and the other at Ranaghat. Nadia is not a procurement district. The Officers of the Food and Supplies Department look after modified rationing, distribution of kerosene and baby food.

There is practically no forest in Nadia District. A small area has been taken up for afforestation. The headquarters of the Divisional Forest Officer, Central Division is, however, located at Krishnanagar.

Nadia district is under the charge of the Executive Engineer, Berhampur Irrigation Division who is stationed at Baharampur

Excise

Finance

Fisheries

Food and Supplies

Forest

Irrigation & Waterways

in Murshidabad district. At Krishnanagar, there is an Assistant Engineer holding charge of the Krishnanagar Irrigation Subdivision.

Public Health Engineering This branch of the Department of Health is in charge of the rural water supply in the State. The Office of the Executive Engineer, Public Health Engineering, Nadia Division is located at Kalyani.

Weights and Measures The Assistant Controller, Weights and Measures for Nadia-Murshidabad is stationed at Baharampur (Murshidabad).

Labour

The Assistant Labour Commissioner of the district is stationed at Kalyani.

Besides the above mentioned officers, the following officers of the State Government are also stationed at the district head-quarters, namely, District Information and Public Relations Officer, District Settlement Charge Officer, District Compensation Officer, etc.

CENTRAL GOVERNMENT OFFICES As to the Central Government Officers, the following officers are stationed at the district headquarters, namely, Income Tax Officer, Superintendent of Central Excise and Land Custom, Assistant Collector of Custom, Assistant Officer of the Central Intelligence Branch, Superintendent of Post Offices, etc.

सन्यमेव जयते

CHAPTER X

REVENUE ADMINISTRATION

Very little is known of the land and land revenue administration of the district under the Hindu kings. This district was a part of the Pundravardhana-bluktii mentioned in early copper-plate grants. R. G. Basak has shown that in this area the administration of land was under the village commune and no land could be sold, gifted or otherwise alienated without the consent of the village commune. The king's prerogative did not extend to his power to gift away land situated in a village. The Faridpur grant of Dharmāditya shows that the king was only entitled to a sixth part of the sale price. From this it may be inferred that the king's right was only to one-sixth of the produce of the land. The five Dāmodarpur grants further show that each village had its own land official, the pustapāla, who kept records of land use and also of lands that were lying fallow.

EARLY REVENUE HISTORY

If the history given in the Kshitīšavamšāvalīcharitam is believed, there was a continuity of the Hindu land administration in Nadia district from about the 11th century A.D. to the British days. The large scale incidence of the Utbandi tenancies may be a relic of the ancient revenue system. The view that this tenancy was created to facilitate the cultivation of indigo is erroneous because Rider, the first Supravisor, reported the existence of such tenancies long before the European indigo planters had started their operation in the district.

It would appear from Chapter II that Nadia district nominally accepted the suzerainty of the Afghan conquerors towards the later part of the thirteenth century and effective subjugation of the district did not take place till the reign of Jahangir. The Afghan conquerors did not interfere with the internal revenue administration of the district and were content with receiving a lump sum tribute. The Nadia Raj family appears to have held only the southern part of the district at the time and other

Afghan conquest of the area.

2 R. G. Basak, 'Land Sale Documents of Ancient Bengal' in Sir Asutosh Mookherjee Memorial volume, Orientalia, Pt. 2, p. 475.

Pundravardhana has been identified with Mahāsthān in Bogrā district now in Bangladesh on the basis of the Mahāsthān inscription; Ep. Ind., XXI, p. 85. The earliest mention of Pundravardhana-bhukti is in the Dāmodarpur copper-plate inscription of the time of Kumāra Gupta I, A.D. 444. This bhukti continues to be mentioned in epigraphic records till the time of Lakshmanasena's Anuliā copper-plate, that is, till the Afeban conquest of the area.

petty land-holders who apparently held the lands as subordinates to the Hindu kings of days gone by, continued to hold the other lands and administer them according to Hindu tenets till the reign of Akbar.

Emperor Akbar's revenue system and Todar Mall's assessment

Akbar's plan of land revenue settlement has been described in the Ain-i-Akbari written by Abul Fazl Allami in the 47th year of his reign (i.e. in A.D. 1603). The province or subah of Bengal was divided into 24 sarkars or grand revenue divisions. Within each sarkar were a number of parganas. Rājā Todar Mall, who was entrusted with making the settlement, collected the accounts of the Kanungoes and in some places ascertained the correctness of the accounts by independent inquiries and by measuring the land. From these materials he prepared the taksim, or the account exhibiting the constituent portions of the rent of each village, district or principality. The aggregate of these taksim formed the tumar or rent roll of the pargana. The total of the rent rolls of the parganas is called the Asl Tumar Jama of Todar Mall. The taksim are lost, but the Asl Tumar Jama survived till the time the East India Company undertook the Dewani. Todar Mall regulated the sovereign's share of the gross produce according to the situation of land and quality of soil by the labour and expenses attending the cultivation of it from one-eighth to one-half of the estimated gross produce. But whatever might have been the theory underlying Todar Mall's settlement under Akbar's system, in Bengal, compromise had to be made because of the existence of powerful chieftains some of whom were in power (like the Nadia Rāj) from before the Afghan conquest. A few of them like Bhabananda Majumdar (of Bagwan) of the Nadia Raj family had rendered active assistance to the Mughal power in subjugation of Bengal. Revenue settlement in Bengal was, therefore, concluded with these Zamindars on an ad hoc basis following a pragmatic policy. It is, therefore, doubtful if the revenue of Bengal was ever determined by actual measurement of land and assessment of the produce as the Ain wants us to believe. Akbar's plan as outlined in the Ain was a plan of collection of revenue direct from the tillers of the soil by his own officers who were called Amilguzars. Though Amilguzars are known in Uttar Pradesh. there is no tradition of any such officer having existed at any time in Bengal. The Ain-i-Akbari, however, does not mention a single Zamindar of Bengal. The reason may be that the figures of parganawise tumar jama of Todar Mall mentioned in

the Ain was a tentative assessment of what the revenue could be. Actual settlement with the Bengal Zamindars must have been concluded long afterwards and the settlement did not actually follow the tumar jama.

The Asl Tumar Jama of Todar Mall for Bengal subah was:

Khalsa	Rs. 63,44,260
Jaigir	Rs. 43,48,892
Total	Rs. 1,06,93,152

The settlement according to Akbar's plan was to have lasted for ten years, but, in fact, it remained unaltered for 76 years till the vice-royalty of Prince Suja. It is also a fact that since the time of Todar Mall and before the British Government started survey and settlement operations in the beginning of the present century, no further land revenue settlement based on actual measurement and field assessment was ever made. All revenue settlements during the Mughal times and all settlements made by the East India Company after the acquisition of the Dewani were made by mere ad hoc additions to the Asl Tumar Jama of Todar Mall. Jafar Khan or Murshid Kuli Khan first started the addition of abwabs to the jama.

The total revenue from the time of Todar Mall to 1763 increased to Rs. 2,56,19,309. It included the subsequent additions made by Prince Suja in 1658, Jafar Khan in 1722, Sujauddin Khan in 1728, Alivardi Khan in 1755 and Kashim Ali Khan in 1763 and the reductions made at different times on account of *Khalsa*, *Foujdari abwab*, dismemberment of territory, etc.

Emperor Akbar who introduced the Mughal revenue system in Bengal, modified in part due to the existence of powerful Zamindars whose loyalty the Emperor could not ignore, had the wisdom to realize that where the revenue has to be collected from millions of individual tenants, there must be a system and that system must not be something which is entirely different from what the tenants are used to. Accordingly, Todar Mall's settlement in its general principle followed the Hindu system of making the rent a portion of the gross produce of the land converted into cash rent (in Bengal, where payment of cash rent was in vogue) on the basis of average produce and average prices of grains over 19 years. Akbar's scheme required that reassessment shall have to be made on actual field investigations at ten year periods. The imposition of ad hoc abwabs was foreign to this system. Thus, in the absence of a revisional

settlement operation, the Asl Tumar Jama of Todar Mall continued for 76 years till Prince Suja revised the assessment by computing increase in cultivation which must have been done by some means of investigation. But the Mughal revenue system was dead since the time of Jafar Khan who began to impose abwabs or ad hoc demands unrelated to the produce of the land. Jafar Khan's abwabs and likewise those of his successors were impositions on the Zamindars and doubtless the latter passed on the additional imposition to the tenants. The percentage increase in the total revenue was 9.2 in 76 years in the assessment of Prince Suja; 8.5 in 64 years in the assessment of Jafar Khan; 15.6 in 28 years in the assessment of Alivardi Khan; and 55.6 in 7 years in the assessment of Kashim Ali Khan.

Shore's minutes on abwabs

- The opinion of Sir John Shore on these increases may be quoted from his minutes dated 17th June 1789, "Para. 30: The principles of Mughal taxation, as far as we can collect from the institutes of Timor and Ackbar, from the ordinances of the emperors and the conduct of their delegates, however limited in practice, were calculated to give the sovereign a proportion of the advantages arising from extended cultivation and increased population. As these were discovered, Tumar or standard assessment was augmented; and whatever the justice or policy of the principle might be, the practice in detail has this merit, that it was founded upon a knowledge of real and existing resources.
- "31. In conformity to these principles, inferior officers were stationed through the country to note and register all transactions relating to the soil, its rents and its produce, every augmentation of cultivation was required to be recorded, as well as every diminution in its quantity.
- "32. An increase of revenue exacted from a Zamindar under these circumstances, affected his profits, but made no alteration in the rates upon the *ryots*; he paid a portion of the rents arising from discovered improvements in his lands: but the cultivators of the soil were not by this demand exposed to the enhancement of their rates. The excess claimed augmented the Tumar or standard assessment, which by the investigations of Jaffar Khan was raised in the sum of Rs. 11,72,279.
- "33. But the abwab subahdary or viceroyal imposts which constitute the increase since 1728 had a contrary tendency; for they enhanced the rates. They were in general levied upon the standard assessment in certain proportions to its amount and the

Zamindars who paid them were authorised to collect them from their ryots, in the same proportions to their respective quotas of rent. ... Where the proportions were not ascertained, the demand was in fact discretional, and though meant in some cases to have a partial operation, was often extended by the inferior officers, to situations where it was unclaimed by the government.

- "34. Jaffar Khan was the author of this innovation; the consequences of which he probably did not foresee. The tax imposed by him which established the precedent was trifling in its amount and apparently intended as a fee to the Khalsa Officers. ...
- "35. An enhancement in the rates of taxation may be defended on the grounds of the extension of commerce and increase of specie between the time of Tury Mull and the administration of Jaffar Khan, although his conduct does not authorise the first conclusion which is supported by that of his successor Sujah. But the mode of effecting it was unconstitutional and liable to the greatest abuses, as the event has proved.
- "36. I shall now endeavour to explain the circumstances which probably suggested to the nazims the idea and practicability of this operation, which might otherwise appear less irregular than it really was.
- "37. Long before the time of Jaffar Khan, impositions under various denominations, and to a very considerable amount, had been levied from the ryots beyond the Tumar or standard assessment. In many places, they had been consolidated into the assul, and a new standard had been assumed, as the basis of succeeding imposition. The Zamindars and officers who levied these imposts gave, in their own practice, an example to the government which knew and probably connived at them; and hence an idea was naturally entertained, that the actual receipts from the country exceeded, in a very great degree, the demands of the state since the latter had not been augmented in any proportion to the successive imposition of interior management.
- "43. The cultivators of the soil, whose labours constitute the real wealth of the state, do not appear to have been considered in these arrangements; it was sufficient that they had paid these exactions to the Zamindars to render them perpetual; no calculation was made of the proportion which the revels (sic), levied from the ryots, bore to the produce of the lands; nor any rule prescribed for limiting that amount, and for securing a certain portion of the produce to them.

"44. I am not possessed of sufficient information to enable me to determine, whether the impositions upon the Zamindars by the nazims and their increased exactions from the ryots, to the close of Aliverdi Khan's administration in 1755, were oppressive or not. If a conjecture be formed from the collections since that period, I must suppose them not to have been very burthensome, and that the resources of the country were, at that period, adequate to the measure of exaction. But nothing can be more evident that the mode of imposition was fundamentally ruinous, both to the rvots and Zamindars; and that the direct-tendency of it was, to force the latter into extortions, and all into fraud concealment and distress.

"63. In this review of the settlement of Bengal, I have not thought it necessary to notice particularly the assessment of Sultan Sujah in 1658. From the era of Tury Mull in 1582, until Jaffar Khan in 1728, the increase was moderate, from that period to the close of Aliverdi's administration in 1755 it was rapid, but not perhaps excessive; in 1763 it was violent and exorbitant."

The able pen of Sir John Shore makes the best review of the assessment of the revenues of Bengal during the time of Mughal decadence. We now quote from a firman issued by Emperor Alamgeer (Aurangzeb) from Harrington's Analysis to show what the intention of the Great Mughals was in the manner of assessment of rent of the tenants:

"From revenue lands you will collect only so much as the ryots may be enabled to pay without being distressed; and on no account shall the amount exceed one-half, though they may be capable of paying a greater portion."2

The above quotation from the firman of a Zamindar shows that the Mughal system never authorized the levy of the abwahs. In order to pay off his debts to the East India Company, Nawab Kashim Ali Khan in 1760 had ceded the revenues of three districts, namely, Burdwan, Midnapur and Chittagong. proportionate assessment of the remaining districts according to the demand of Kashim Ali Khan was Rs. 2,41,18,912. following table taken from Shore's minutes dated the 18th June 1789 would show that the actual collections fell far short of the demand.

W. K. Firminger, The Fifth report (1917), Vol. II, Minute of John Shore, dated 18th June 1789.
 J. H. Harington, An Elementary Analysis of the Laws and Regulations enacted by the Governor-General in Council at Fort William, Calcutta, 1805-22.

Year	Collected by	Gross demand	Collection	Balance
1762-63	Kashim Ali	2,41,18,912	64,56,199	1,76,62,713
1763-64	Nanda Kumar			
	under Mir Jafar	1,77,04,766	76,18,408	1,00,86,358
1764-65	Do	1,76,97,678	81,75,534	95,22,144

In 1765, the East India Company acquired the *Dewani* and appointed Mohammed Reza Khan as *Naib Dewan* to make the collections. He reduced the demand further to Rs. 1,60,29,011 and collected Rs. 1,47,04,876 leaving a balance of Rs. 13,24,135. The following table also taken from Shore's *minutes* will show that in the three year period from 1762-63 to 1765-66 the reduction that had to be made to the assessment of Kashim Ali was to the tune of Rs. 80.9 lakhs.

ABSTRACT ACCOUNT OF THE DECREASE IN THE SETTLEMENT OF THE DEWANI LANDS FROM APRIL 1762 TO APRIL 1765 INCLUSIVE

	Rs.	Rs.
Settlement of Kashim Ali in 1169 B.S. or A.D. 1762-63		2,41,18,912
Settlement of Nanda Kumar 1170 B.S. or A.D. 1762-63	1,77,04,766	
Add, Nazarana Mokurrery and articles separately		
collected	5,64,576	1,82,69,342
सत्यमेव	Difference	58,49,570
Decrease in 1171 B.S. or A.D. 1763-64	13,498	
Increase in the same year	6,409	
Net decrease in the year		7,089
Net difference between settlements of Kashim Ali and Nanda Kumar		58,56,659
Decrease allowed by Mohammed Reza Khan	31,06,024	
Increase in some districts	8,72,781	
Net decrease		22,33,243
Total decrease in three years		80,89,902

The total shortfall in the collection even with the reduced demand was Rs. 3,85,95,350 in four years. Added to this the total reduction of Rs. 80,89,902, the total deficit comes to Rs. 4,66,85,252.

The Directors of the East India Company were much annoyed at the shortfall in expected revenue. At that time they had not the wisdom to realize that the shortfall was caused by the fact that the demand was fixed too high. A Company of foreign merchants had suddenly been entrusted with the duty of collection of land revenue, a task for the performance of which they had neither the insight nor the capability. Whispers went round that there had been large scale embezzlement. James Grant in his Analysis1 has squarely accused Reza Khan of embezzlement. The English factors at the time were highly distrustful of the Indian Zamindari officials, but they had not acquired and did not care to acquire the knowledge required to understand the Zamindari collection papers. Young servants of the Company had been appointed as Supravisors in the districts during the period of Reza Khan's collection. A few of them did find out some truths but the Company brushed aside all these reports and Warren Hastings at the head of a Committee on Circuit decided to put up the revenues of the Zamindaris to auction and settled with the highest bidders.

Rack-renting during Reza Khan's administration

On the 24th May 1769, Richard Becher, the Resident at the Durbar of the Nawab, wrote a letter to Governor Verelst in which he states, "it must give pain to an Englishman to have reason to think that since the accession to the Dewanee the condition of the people of this country has been worse than it was before... When the English first received the grant of the Dewanee, their first consideration seems to have been the raising of as large sums from the country as could be collected, to answer the pressing demands from home and to defray the large expenses here. The Zamindars not being willing or able to pay the sums required, aumils have been sent into most of the districts. These aumils on their appointment agree to pay a fixed sum for the districts they are to go to and the man who has offered most has generally been preferred. What a destructive system is this for the poor inhabitants! The aumils have no connection or natural interest in the welfare of the country where they make the collections, nor have they any certainty of holding

¹ W. K. Firminger, loc. cit., Vol. II, pp. 363-64.

their places beyond the year; the best recommendation they can have is to pay their kistbundees punctually to which purpose they fail not to rack the country whenever they find they can't otherwise pay their kists and secure handsome sum for themselves. Uncertain of their office and without opportunity of acquiring money after their dismission can it be doubted that the future welfare of the country is not an object with them? Nor is it to be expected in human nature. These aumils have had no check on them during the time of their employment; they appoint those that act under them, so that during the time of the year's collection their power is absolute. There is no fixed hustabood by which they are to collect, nor any likelihood of complaints until the poor ryot is really driven to the necessity by having more demanded of him than he can possibly pay. Much these poor wretches will bear rather than quit their habitations and come here to complain, especially when it is to be considered that it must always be attended with loss of time, risk of obtaining redress, and a certainty of being very ill used should the aumils' influence be sufficient to prevent the poor man's obtaining justice, or even access to those able to grant it to him. On this destructive plan, and with a continual demand for more revenue have the collection been made ever since the English have been in possession of the Dewanee."1

The above observation of Richard Becher, an officer of the East India Company who had the insight to see that the revenue policy of the English was ruining the country, may be taken as a correct appreciation of the methods employed during the time the collections of the Dewani revenues were entrusted to Mohammed Reza Khan. Becher in this letter proposed the appointment of the Supravisors. Verelst accepted this latter proposal. Detailed instructions were drawn up for the guidance of the Supravisors. They were to collect a summary history of the district and look into the Zamindars' collection papers and prepare a correct hustabood. They were to meet the tenants and assuage them and impress upon them that the object of their inquiries is not to impose additional taxation but to fix the legal dues and to abolish unauthorized and illegal exactions. The very brief summary of the instructions to the Supravisors would show that Verelst had a tender regard for the ryot. But the efforts of Verelst to provide a good revenue administration failed.

Appointment of Supravisors

¹ W. K. Firminger, Introduction to the Fifth report (1917), pp. CLXXVI-VII.

firstly, because most of the Supravisors were not equal to the task entrusted to them and for which they had not the training, and secondly, because of distrust. The English company of merchants had not at that time realized that trust in the local official is an essential ingredient of a good administration. Ascoli writes: "Just as the Court of Directors abused its officials in India, so the Council abused and distrusted its local agents. A combination of ignorance and distrust has never proved to be an administrative success."

Training Sculement for five years

One of the purposes of the appointment of the Supravisors was to find the real assets of the Dewani lands and to prepare a correct hustabood of the several Zamindaris. The Supravisors failed in this. They did collect some information and it appears that Jacob Rider, the Supravisor of Nadia, did prepare a statement of assets which were available to Warren Hastings. But as stated already, the English factors at the time had the greatest distrust of Zamindari papers and could not place much reliance on their own officers either. It was, therefore, decided to find the real worth of the estates by putting them to auction. The first auction was that of the revenues of the Nadia Zamindari. The Committee consisting of Warren Hastings, Phillip Milner Dacres, James Lawrell, and John Graham went to Krishnanagar in June 1772. The Rājā of Nadia offered the annual revenue of Rs. 8,25,000 rising to Rs. 9,25,000 for the next five years. This was considered insufficient probably in view of Rider's assessment of Rs. 12 lakhs and the estate was put to auction. The highest bid secured was Rs. 10,64,530 for 50 parganas. The following is an abstract account of the settlement:2

Jama ascertained by the public sale	Rs. 10.64,530
Allowance to the farmer for making the collection	51,397
Collector's allowance and Cutchery officers wages Cutchery contingent charges	30,768 1,560

¹ The 24-parganas including Calcutta which was now held as ceded land by the East India Company originally belonged to the Nadia Zamindari consisting of 75 parganas and noted by Sheristadar James Grant.

J. M. Pringle and A. M. Kemm, Final Report on the Survey and

Settlement operations in the District of Nadia: 1918-1926, p. 56.

(Contd.)	Rs.
Amount of ready money allowances	
to the establishment of Tannadars	
and Pykes	9,922
Allowances to the officers of the	
adawlet	1,800
Dawk Charges	2,568
Allowance of the Kanungoe at Murshidabad	4,344
Peshkush to Tanna Catwa	2,301
Peshkush to Morzawnagur	250
Jaigir of Kirza Erich Cawn	1,778
General charges including charges	
of remittances and repairs	3,500
Poonea charges	100
Allowance to the Zamindar	
Rājā Kishen Chand	2,00,000
	3,10,288
Net Revenue	7,54,242

If we deduct the *Malikana* or *Moshaira* as it was then called, paid to the Zamindar from the gross revenue ascertained by the bidding, the figure is Rs. 8,64,530 which is not very much higher than the offer by the Zamindar, the Rājā of Nadia, namely, Rs. 8,25,000 for the initial year and is certainly less than Rs. 9,25,000 which he promised in subsequent years.

The settlement by auction again proved a failure. It is unfortunate that Warren Hastings did not realize that the observations of Becher of 1769 in regard to the aumils would apply squarely to these adventurer revenue farmers. The Company had hoped that the auctions would enable them to ascertain the real value of the estates. In this they were mistaken. Estates were knocked down at the auction to speculators of small means and perhaps of lesser character whose only object was to extort from the ryots as much as they could during the term of their lease and leave the estates ruined and deserted.

Warren Hastings' scheme for farming out the revenues of the *Dewani* lands to highest bidders was perhaps suggested by the method employed by Reza Khan in selecting his *aumils* as disclosed in the letter of Richard Becher. He also expected that the auctions would reveal the actual assets of the estates.

Hastings' theory would have had some justification if the amounts contracted for by the farmers had been substantially realized. James Mill, the historian, has given the figures of unrealized amounts in the five year period for which the settlements were concluded. "According to the statment of the Accountant General, dated the 12th of July 1777, the remissions upon the five years' leases amounted to Rs. 1,18,79,576; and the balance, of which the greater part were wholly irrecoverable amounted to Rs. 1,29,26,910."

In Nadia the farmer failed to pay his contracted amount in the very first instalment and the deficit was Rs. 1,04,000. In 1773, the farmer's contract was annulled and the Rājā of Nadia agreed to take the settlement in the name of his son Shibchandra Ray on the same terms as the sale but with 10 per cent deduction for *mofussil* charges instead of five per cent. But arrears again accumulated which by 1781 reached a figure of Rs. $2\frac{1}{2}$ lakhs. Even allowing a 10 per cent deduction, the net payable revenue was Rs. 9.5 lakhs. It may be relevant to note in this connection the following figures of demands and collections of the Nadia Zamindari immediately before the farming settlements.

Year	Demand Rs.	Collection Rs.	
1768-69	8 , 33 , 467	7,01,778	
1769-70	8,43,917	6,05,928	
1770-71	8,27,420	7,36,899	

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The demand, Raja Shibchandra Ray accepted, was thus Rs. 1.1 lakhs higher than the highest assessment in the immediately preceding three years and Rs. 2.14 lakhs higher than the highest collection during this period.

The failure of the farming system at last led the Council to realize that the defect lay not so much with the administrative machinery as with the method of assessment. On 28th March 1775, Barwell proposed that settlements be made with the Zamindars for one to two generations and Francis in Jamuary next suggested a permanent settlement with the Zamindars. On December 24, 1776 just before the term of the farming settlement was to expire, the Court of Directors wrote that they would not

¹ James Mill, History of British India, Vol. IV, p. 9.

agree to either a permanent settlement or to a settlement for lives and that the lands be let out for the succeeding year on the most advantageous terms but auction should never be resorted to. In accordance with the directions, the farmers were recalled in April 1777. The lands were offered to the Zamindars on the previous year's revenue assessment. The Rājā of Nadia refused at first to take settlement on the previous year's revenue. The Calcutta Committee then decided to call for farmers to let the Zamindari in farm. His experience during the farming days when he lived a miserable life as a pensioner shorn of his glory and prestige was so vivid in his mind that the Rājā agreed.

The officers of the East India Company in India were by this time convinced that the revenue that they sought to realize was more than what the estates could bear. Indeed, the Governor-General admitted in a *minute* dated 8th February 1780 that the assessment exceeded the abilities of the Zamindars to pay in many parts.

The Zamindari system was at last again restored. But the harm caused to rural Bengal in the intervening period was incurable. Kashim Ali Khan's excessive demands started a sequence of evil practices. British administrators fell under the spell of these figures as the elaborate treatise of James Grant shows. Over-assessment with all its attendant evils became a permanent feature of the land revenue administration and this was carried through the settlement of Mohammed Reza Khan, the five year farming leases, the annual settlements with the Zamindars and even through the Decennial Settlement and the Permanent Settlement. Effective increase in the assessment went on steadily from 1765-66 to 1786-87 in spite of the following deterrent conditions. The famine of 1770 carried away a third of the population and about half of the cultivators and a whole generation of once affluent families were reduced to indigence and beggary. Nearly one third of the cultivated area lay fallow. Depopulation continued unabated for the next fifteen years and "until 1785 the old generation died off without there being any rising generation to step into their shoes."1

"Since the Company's acquisition of the country, the current specie of the country has been greatly diminished in quantity; the old channels of importation, by which the drains were replenished, are now in a measure closed: the necessity of Revival of Zamindari

¹ W. W. Hunter, Annals of Rural Bengal, Chapter II.

supplying China, Madras and Bombay with money as well as the exportation of it by Europeans to England will still further exhaust the country of its silver." The total amount of silver exported to England during 1757 to 1780 appears to have been something like 38 millions pounds sterling.2 The entire export trade of Bengal was monopolized by the East India Company and as such the possibility of import of silver by the exports ceased. A portion of the Revenue realizations of Bengal was set apart every year for the purchase of goods for export to England. This was called investments. The value of these investments during 1766 to 1780 was £ 1,23,60,264.3 "The monopolistic trading policy of the Company in compelling the ryots to sell their products at an arbitrary low price and to buy their goods at an enhanced price and the decline of the weaving and salt industries providing a supplementary income impaired the ryots' power of producing wealth. The extortionate revenue demand and the policy of farming to the highest bidders struck the landlords low."

Permanent Settlement

When Lord Cornwallis came to India in 1786 and applied himself to the formulation of the Permanent Settlement, he was sore pressed to justify a demand of Rs. 260 lakhs which the Directors wanted. The ryoti assets of the country did not justify that revenue. The only justification he could find was that the Zamindars will reap the profits of extended cultivation in the untenanted jungle and waste lands left at their disposal. some time the revenue assessment would tell heavily upon the Zamindar and some of them might lose their estates by the operation of the Sale Law but there was, he felt, ample future prospect, which an efficient Zamindar could explore; and if for his failure the property passed in the hands of the more industrious, the better it was for the country and the community as well as for the State. The revenue demand of the Permanent Settlement was a demand which was proportioned according to the needs of the Company and not upon the resources of the country. The future was unknown and in view of the decimated population and large areas having been covered by jungle, extension of cultivation could not be done except by

¹ Shore's minutes, loc. cit.

² J. C. Sinha, Economic Annals of Bengal, p. 51, ³ P. N. Bancrji, Finance in the days of the Company, Ninth Report of

the Select Committee, 1783.

Bejoy Chand Mahatab, 'Minute of Dissent', vide Report of the Land Revenue Commission of Bengal, Vol. I, p. 207.

making large investments. Lord Cornwallis did not consider whether the Zamindars, who were given the allurement of future profits, had the necessary capital at their disposal to lay out.

"The assessment of the Decennial Settlement (1790-91) which was eventually made permanent in 1763, was fixed at Rs. 268 lacs, exclusive of the Sayer (separately reserved by the Government) and even of invalid lakheraj lands within the Zamindaris. Over Rs. 60 lacs of the assessment was thus entirely on prospective basis. It was a perfect business proposition for a trading company when the future, political or otherwise, was still so much in the hands of God. Sure of a revenue of Rs. 268 lacs and armed with the power of bringing an estate forthwith to sale when the revenue was not paid punctually, they found large sums of money for application to the development of their own trade for meeting deficits in other parts of their possessions in India, prosecuting territorial campaigns, and even assisting outside as far as St. Helena and the wars in Europe."

"While this happened estate after estate was knocked down in revenue sales. How pitiable the condition was, is evidenced by the fact that for many years, these sales did not fetch even the arrear revenue, and in many cases there were no bids. By 1815, wrote A. D. Campbell, one-third or rather one-half of the Zamindaris in Bengal passed out of the hands of the older families." It was useless to attribute this to the contumacy of the Zamindars. The hard fact was that the revenue fixed was excessive and the depletion of silver due to causes mentioned earlier actually lowered the price of grain and thus raised the effective demand of rent or revenue.

As in other Zamindaris, the dismemberment of Nadia Zamindari proceeded fairly rapidly after Permanent Settlement by the enforcement of the Sale law. In 1803, the Zamindari was under Court of Wards, but in 1805 it was restored to Raja Girish Chandra Ray. In 1806, large portions of Alampur and Ukhrā parganas were sold to Sambhu Chandra Pal and Krishna Chandra Pal. Pargana Ukhrā at the Decennial Settlement had been assessed at Rs. 1,61,070; by 1810, alienations had reduced it to Rs. 1,33,988; in 1811, there were further sales involving deductions amounting to Rs. 35,000 odd and in 1813, the whole estate was put to sale for the realization of judicial dues and

Ruin of Nadia Zamindari by application of Sale law

² Ibid., p. 179.

¹ M. N. Gupta, 'Notes' in Report of the Land Revenue Commission, Bengal, 1941, Vol. V, pp. 178-79.

Government revenue. As a result, the lands left were found only sufficient to bear a revenue of approximately Rs. 72,000. This process of disintegration went on fairly rapidly and the chief pre-occupation of the revenue authorities was the creation of the separate estates and the adjustment of their revenue. By 1809, it was reported that there were no less than 886 estates which paid their revenue directly to Government. The process continued for the next 50 years. By 1850, the number of estates had grown to 3,064. The condition of Raja Girish Chandra Ray in 1840 is described in the Settlement Report as very poor and miserable. The only estate he had was 9 mahals with a revenue of Rs. 33,000 and profits of about Rs. 13,000. In less than 50 years after the Permanent Settlement, the large Zamindari of 75 parganas had been ruined.

The tenancies in Nadia district were in some respect peculiar. But, as with the abolition of the Zamindaris and implementation of the Estates Acquisition Act all tenancies have been brought to one uniform level, only a brief description is given here.

The Settlement operations of 1918-26 revealed these peculiarities. In Krishnaganj and Hanskhali thanas as well as certain other thanas pertaining to East Pakiştan (now Bangladesh), quite a large number of tenancies were found which were held at fixed rents and according to the presumption of Section 50 of the Bengal Tenancy Act they were declared mokarari.

In Ranaghat, Chakdaha and Haringhata thanas, the ordinary divisions of ryoti status into ryots holding at fixed rents, occupancy and non-occupancy ryots were unknown. Instead, the classifications locally known are (a) bemeyadi ryots, (b) meyadi ryots and (c) utbandi ryots. Both bemeyadi and meyadi ryots held under written instruments. The bemevadi ryot was a permanent ryot locally known as mourasi also. The implications of the contract with Zamindar was that the rent should be fixed but omission to mention this in the instrument had led to enhancement in some cases. The meyadi ryot held under a temporary lease and was liable to eviction on notice. In Kaligani, Nakasipara, Navadwip, Krishnanagar and Shantipur thanas, much of the land was held under utbandi tenancy. Mokarari tenancies were insignificant in this area. Various grades of patnis were common with direct sub-infeudation of several grades till the whole lands were united in the hands

Tenancies in Nadia district

¹ Vide, Nadia Settlement Report.

of one man at the bottom. This was a remnant of the indigo days. This artifice enabled the planters to have actual hold over large areas of land. In Tehatta and Karimpur thanas, the real landlords were the permanent tenure holders. number of mokurari ryotis were small being only 7.5 per cent in Karimpur thana. The reason of such divergence from the norms of other districts is not easy to guess. It may be that the land system in Nadia district was initially different from other districts, because in Nadia we find a continuance of the land and revenue systems from the Hindu times to the time of the Dewani of the East India Company. Or what is equally possible is that with the dismemberment of the Nadia Zamindari purchasers at the sales utilized the provision of Section 5 of Regulation XLIV of 1793 for the wholesale eviction of the tenants or for the enhancement of rents and creation of new tenancies. Decimation of population by the famine of 1770-71 and by the Burdwan fevers in the middle of the last century, left much of the land without a cultivator. The landlords might have utilized these fallow lands to create a tenancy system under which the tenant was a mere tenant at will.

Utbandi tenancies are peculiar to this district and merit a brief description. It is defined in the technical rules of the Survey and Settlement Manual in the following terms: "The holding is not fixed either in area or in position but consists of a variable parcel or parcels of land ascertained by measurement or inspection made at least once a year. The rent is paid for each year or season in respect of the parcel or parcels of land which has been ascertained by the said measurement or inspection to have been during the year or season in question, in the cultivation of the ryot. This is a legal system of ryoti tenancy. The two essential features of the system are: (a) the fluctuating character of the lands in the holdings; (b) the measurement of inspection made at least once a year, with a view to the assessment of the rent."

. In an area where the lands are not too fertile and required cyclical fallowing for recuperation and where the land was in excess of the demand, the *utbandi* system was a tenant's choice. The *ryot* chose suitable parcels of land for cultivation and paid rent in accordance with established rates for the crop sown and for the area brought under the plough. So long as land was available in abundance, the *utbandi* system was beneficial both for the *ryot* as well as for the Zamindar. But gradually,

Utbandi tenancy

as population increased and land diminished in quantity, abuses began to set in. The legal disadvantage of the utbandi tenant was that by the provision of Section 180 of the Bengal Tenancy Act, he was prevented from securing occupancy rights. The utbandi system required annual measurement of the area cultivated and inspection of the crop grown as the rate of rent was different for different crops. The large scale prevalence of the system is evidenced by the existence of a family title of Halsana in the district. The Halsana was the petty Zamindari official who used the measure, inspected the lands and prepared the chitthus. The petty Zamindari staff were proverbially ill paid and proverbially dishonest and in many cases they were not paid at all and subsisted on the fees paid by the cultivators. If a tenant was prepared to grease the palm of this official, he could get the area under his cultivation reduced. The excess may be returned as fallow or tacked on to the holding of another poorer or more honest tenant. Under these circumstances the tenant was always uncertain of what the demand on him would be and had little chance of realizing whether his legal rights have been ignored. Thus, utbandi system later gave rise to the several evil effects. It put a discount on enterprise by taxing the more valuable crops and giving no security of tenure. It often left the tenant in perpetual uncertainty about his true liability.

These and many other abuses and difficulties were pointed out by the Settlement operations of 1918-26 and the Bengal Tenancy Act was amended and Section 180A was inserted in 1923 whereby the tenant on application to the Collector, Subdivisional Officer or Revenue Officer could have a uniform money rent determined for his holding and could be declared an occupancy ryot if he was eligible but had not acquired such right by the operation of Section 180 of the Act.

The West Bengal Estates Acquisition Act, 1953 was brought into operation in two stages. In April 1955, all the Zamindari interests were abolished but the intermediary interests below the Zamindar were allowed to remain. All rent receiving interests were abolished in April 1956 and the land revenue administration in West Bengal changed its character from a Zamindari system to a ryotwari system. For the purpose of preparation of the new record of rights, the old records of rights were taken up from the stage of attestation. All sub-infeudations were annualled and rents were refixed in accordance with the

The present system of assessment & collection of land revenue established rates in respect of land actually possessed. The total demand on the basis of this revision for the district of Nadia for 1376 B.S. was Rs. 24.28.846.

The Collector is the chief officer-in-charge of collection of land revenue in the district. The direct charge of the collection department, however, rests with an Additional District Magistrate (Estates Acquisition). He exercizes all the powers of the Collector under the Act. In each subdivision, the Subdivisional Officer is in overall charge of the collection administration and the direct charge is held by a Subdivisional Land Reforms Officer. At the thana level a Junior Land Reforms Officer is in charge of the collections. On the basis of the revision of records of rights and refixation of rents, tenants' ledgers have been opened in the offices of the Junior Land Reforms Officers. Actual collection is made by Tahsildars in each mouza who issues rent receipts to the tenants. The amounts collected are deposited in the Sadar or Subdivisional treasuries, as the case may be, by the Tahsildar by special land revenue challans. Printed rent receipt books are issued to the Tahsildars by the J.L.R.O.s and a strict account of the books issued and the books expended is kept. In cases of default, the arrears are realizable by the certificate procedure in accordance with the Bengal Public Demands Recovery Act, 1913. Every J.L.R.O. has been vested with the powers of a Certificate Officer. The table of collections from 1372 B.S. (1965-66) to 1376 B.S. (1969-70) is given in the Appendix.

The East India Company achieved a political status in Bengal in 1765 with the acquisition of the Dewani. As a mercantile body it was hardly a suitable body for the exercize of the imperial powers. Its organization was loose, torn by internal dissension, suspicion and avarice in at least some of its officers. The Company had not till 1793 any administrative machinery of its own, trained and equipped to carry on the task of assessment and collection of land revenue. Both Shore and Cornwallis who were the authors of the Permanent Settlement had soft corners in their hearts for the peasants. Shore felt, however, that after having declared the Zamindar proprietor of the land, the Company would have no power to interfere with his absolute right of landlordism. Cornwallis, however, did not share Shore's difficulty. He wrote, "If Mr. Shore

LAND REFORMS
The history of relation between landlord and tenant

means that after having declared the Zamindar proprietor of the soil, in order to be consistent we have no right to prevent his imposing new abwabs or taxes on lands in cultivation. I must differ from his opinion, unless we suppose the ryots to be absolute slaves of the Zamindars; every bigha of land possessed by them must have been cultivated under an expressed or implied agreement that a certain sum should be paid per bigha and no more. Every abwab or tax, imposed by the Zamindar over and above this sum is not only a breach of that agreement, but a direct violation of the established laws of the country. The cultivator, therefore, has in such case an undoubted right to apply to Government for protection of his property, and the Government is at all times bound to afford him redress. I do not hesitate, therefore, to give it as my opinion, that the Zamindars neither now nor ever, could possess a right to impose taxes or abwabs on the ryots." Cornwallis laboured under two misconceptions. The one was that the pargana rates were known and definite which fixed the rents per bigha and the other was that usage and custom was so precise and definite that easy redress could be had in courts of law in case of breach. Thus writes L. R. Fawcus in the Khulna Settlement Report, "The framers of the Regulations confused the ideal with the real; the well-known homily in Regulation 1 of 1793 'to discharge the revenue at the stipulated periods without delay or evasion and to conduct themselves with good faith and moderation towards their dependent talukdars and ryots are duties at all times indispensably required from the proprietors of land' etc., proved vain words and the legislation intended to 'promote the future ease and happiness of the people' (Article VI, Regulation I, 1793) proved in most cases a source of ruin to the proprietor and oppression to the tenants."

Cornwallis did not stay in India to see the ruin wrought by his system. The real fault was that the assessment of revenue was too high. The payment was enforced by a Sale law for sale of proportionate parts of estates for failure of every monthly kist. This was a mode unknown in India. Under the Mughal system, the Zamindars paid their revenue in instalments and the final accounting was done at the end of the year. Collection of rents also have to be made according to agricultural seasons

¹ W. K. Firminger, loc. cit., Vol. II, p. 532.

as each crop is harvested and ready for the market. A monthly kist under such circumstances was wrong in principle and could only be paid by the Zamindars if they had reserve assets with which to discharge their liability. The Maratha depredations, the exacting collections of Kashim Ali Khan, the famine of 1770-71, and the farming settlements from 1772 to 1777 during which period the Zamindars were pensioned off with a pittance, had actually so undermined the financial conditions of the Zamindars that few had any reserve fund with which to pay the monthly kists before realizing the rents from the ryots.

The ruin of the landed aristocracy of Bengal, some of whom were actually independent Rajas like the Nadia Raja from before the Muslim conquest, started from the very first year of the Permanent Settlement. The British administrators at the time blamed the contumacy of the Zamindars and their incompetence. The Permanent Settlement assessment had put the Zamindars on the rack. Soon it was realized by the British administrators that unless the Zamindars were given the power to put the ryots too on the rack, the revenue of the East India Company will be in jeopardy. Even in the Regulations of 1793. there were contradictions. Thus Regulation VIII of 1793 declared that the tenancy of the khudkast ryot could not be anulled so long he paid rent. But Regulation XLIV of 1793 provided that the purchasers at the Revenue Sales could annul all tenancies. This completely negatived the provisions of Section 49 of Regulation VIII of 1793 which gave security of tenure to the istimradars. Section 50 of the same Regulation declared that the rent of the istimradars (khudkast ryots) could be revised in accordance with the pargana rates. Regulation IV of 1794 declared that disputes about rent even of khudkast ryots could be referred to the civil court for adjudication. pargana rate was an elusive thing, the Zamindar's mere statement was proof of it and by this means the so called security given to the khudkast rvots was also taken away.

In 1793, the worst of the anti-tenant Regulation, i.e. Regulation VII of 1793 (Haftam Regulation) was promulgated. This authorized the Zamindar to seize and sell the crop and chattel of the ryot in case of default. Power was also given to the Zamindar which he could delegate to his inferior servants to enter into the houses of the ryots and seize his personal belongings. Regulation V of 1812 (Pancham Regulation) in an attempt to give relief to the ryot actually made his position worse.

Under this Regulation, if the ryot wanted to prevent distraint of his crops and chattels, he had to approach the civil court and prove that nothing was due from him. This Regulation reversed the course of natural justice by shifting the onus of proof from the Zamindar to the ryot. While the supposed authority to annul the tenancy of a khudkast ryot by Regulation XLIV of 1793 may be construed as an error of drafting as was held in the Great Rent Case of 1865, Regulation XI of 1822 actually made a positive encroachment on the right of the khudkast ryot by introducing the word kadimi. Thus this Regulation went back upon the scheme of Cornwallis to give protection to all khudkast ryots by specially stating that the rights of only those khudkast rvots whose tenancies subsisted from before the Permanent Settlement need be protected from annulment after revenue sales. Again, by 1812, most part of the original Zamindaris had passed out of the hands of those who originally contracted at the Permanent Settlement. The new purchasers were not slow to take advantage of the lacuna in drafting of Regulation XLIV of 1793 and had already in most cases annulled the tenancies. Thus both the khudkast and the khudkast kadimi ryots suffered. The judicial determination in the Great Rent Case came too late. The mischief had already been done. The Settlement operations taken up from the beginning of the present century, did not find any more than 10 to 12 per cent of the tenancies in any district as mokarari. Even so, many of these were declared mokarari by the presumption of Section 50 of the Bengal Tenancy Act. Thus, only a negligible fraction of the original khudkast ryots subsisting at the Permanent Settlement survived.

The first legislation to secure the rights of the tenants was the Rent Act (Act X of 1859). This Act, while avoiding a definition of tenancy, conceived three classifications of tenancies: (1) ryots at fixed rates, (2) occupancy ryots and (3) non-occupancy ryots. The first group were ryots whose rents have not changed since the time of the Permanent Settlement and for practical purposes those whose rent had not changed for twenty years, were presumed to be holding at the same rent since the time of the Permanent Settlement. The second group were ryots who had held land for a period of twelve years though not at fixed rent. The rents of such tenants were to be equitable rents. The third group were ryots who did not belong to the previous two groups. The rent of such ryots were to be

determined by agreement between the parties. All ryots were entitled to receive pāttās. Again, this was a half-hearted legislation and there remained scope for oppression on the tenant by suits for enhancement of rent in the last two categories. The Act provided for suits for enhancement of rents but did not lay down definite principles for fixing the equitable rent. Judicial pronouncement in the Great Rent Case¹ decided that the rent paid by the ryot previously shall be deemed fair and equitable rent unless the contrary is proved. The next comprehensive legislation was the Bengal Tenancy Act of 1885. So far the district of Nadia is concerned the utbandi tenants were kept at a special disadvantage by Section 180 of the Act alluded to previously. The tenant's right in the Mughal days was transferable. The Permanent Settlement ignored it. It was not till the 1928 Amendment of the Bengal Tenancy Act that the ryot regained this right with some restrictions. Under the Estates Acquisition Act, the ryot has been declared a proprietor of the tenancy and has been given full liberty of transfer and inheritance. In the case of the members of the Scheduled tribes, however, the tenancy is heritable but cannot be transferred save with the sanction of the Revenue Officer. This has been done to prevent land belonging to Scheduled tribes from falling into the clutches of designing people outside the tribe.

Under the Land Reforms Act, 1955, the ceiling of the agricultural holding was 25 acres per individual. A recent enactment aims at fixing the ceiling per agricultural family instead of the individual. The new amended act is still in its operational stage. The total area of agricultural and other land vested in the State owing to the operation of the ceiling up to 30th April 1971 in the district of Nadia was 11,825 acres. An area of 6,927 acres out of this has been settled with cultivators on licence for one year, and 176 acres has been settled in ryoti status.

The only agrarian movement which is noteworthy was the indigo disturbances mentioned in Chapter II of this volume. In some estates in this district, the Zamindars attempted to enhance rent by falsification of records so as to take advantage of the first proviso to Section 29 of the Bengal Tenancy Act. In another case in Betai the Zamindar tried to enhance rent on

Ceiling of agricultural holdings

Agrarian movement of early times

¹ Thakooranee Dossi Vs. Bishessor Mukherji (1865 full bench) 3 W.R. 29; BLR 2002.

the second proviso of the same Section for having made an improvement by excavating a $kh\bar{a}l$ which was in fact excavated by contributions from the tenants themselves. These gave rise to minor commotions.

Bhoodan

This movement did not gain any momentum in this district.

Rural wages

Daily wages of agricultural labour in the district as paid in the State Agricultural Farms under the Minimum Wages Act, 1948 were as follows in 1969-70 (in rupees): man 3.05, woman 2.78 and child 1.77.¹

ADMINISTRATION OF OTHER SOURCES OF REVENUE Other sources of revenue, both in the Central and State sectors, are realized under different Acts and the administration thereof is carried on by the respective departments.



¹ Government of West Bengal, Economic Review: 1970-71

CHAPTER XI

LAW. ORDER AND JUSTICE

At the beginning of the eighteenth century, the district was notorious for the crime of dacoity or gang-robbery. During his viceroyalty (1704-25), Murshid Kuli Khan took stern steps to suppress the crime. But the crime again became prevalent under the less vigorous government of Murshid Kuli Khan's successors. Great disorder reigned for some years after the English obtained the *Dewani* in 1765. The question, which came up for considerable debate was whether the Company had any authority to alter the criminal law of the country. On the other hand, the Nawab, who was responsible for the administration of criminal justice, lacked the means to enforce his decisions.

The reasons lying behind the notorious crime of dacoity in the district were many and varied. Besides the legal confusion already mentioned, inconceivable oppressions and hardships were inflicted by the English merchants and their gomastās on the poor manufacturers, weavers and workmen. Many Zamindars again were dispossessed throughout the country. They themselves started living by plunder. Moreover, they had to dismiss their armed retainers and lāṭhiāls, who increased the number of the dacoits. Coupled with the unemployment and poverty was the general collapse of the criminal administration. Moreover, the geography of the district was favourable to the professional dacoits. The district was intersected by streams, creeks and jungles.

The official records relating to the suppression of dacoity contain interesting particulars regarding the operations of the dacoits in the district of Nadia. These dacoits generally used to operate in gangs mainly within the jurisdictions of Krishnanagar, Shāntipur, Rānāghāt, Hānskhāli, Chākdaha and Nākāsipārā thanas. Surprisingly enough, womenfolk also accompanied the

INCIDENCE OF CRIME

J.H.E. Garrett, Nadia District Gazetteer, Calcutta, 1910, p. 120.

Hastings maintained that the Company was entitled to abrogate the rules of Muhammedan law. (Letter from Warren Hastings to the Council, dated July 10, 1773.) Cornwallis was also of the same opinion. (Minute of Cornwallis, dated December 3, 1790). But there were some who held that from the terms of the Farman by which the Dewani was granted to the Company, it was clear that in the Nizamat the Company 'had no legal right to interfere'. Hunter, Annals, pp. 329-30.

gangs in their expeditions. From the confessions of the prisoners it appears that there was one Sona Dhopanee who was regarded as an incarnation of the goddess Devi and worshipped before the attack of a house was made. Zamindars of the district were patrons, protectors, saviours and partners of the gangs sharing the spoils of their depredations. Besides the Zamindars, the police personnel and also the factory men were in league with these gangs of dacoits.

Cases which came up before the Commission for Suppression of Dacoity, which was constituted by the Company, show the determined and daring manner in which these crimes were committed. By way of citing two cases of dacoity the Commission observed, "Notwithstanding in both cases they knew people were awake and awaiting them and ready to oppose them, the dacoits still did their utmost to force their way into the house. The dacoits go upon these expeditions with the full intention of overcoming all obstacles and committing the crimes at all hazards. If opposed they did not hesitate to murder but if possible they would rather carry out without injuring anybody."1

These organized gangs mainly committed crimes for the purpose of plunder but they also used to commit them through motives of revenge. In some cases the sole object of the gang was to murder a person who had oppressed them, for example, a village gomastā.2

Dacoity became such a menace to the administration and the people alike that East India Company could not remain idle. Stringent measures were adopted to suppress the crime. In 1808, it was enacted that notwithstanding any other previous law (Clause 3, Section IV of Regulation LIII of 1803) in this regard, all persons convicted of being concerned in robbery by open violence and who were not liable to suffer death under the Regulations in force, were to be sentenced to thirty-nine lashes and imprisonment or transportation for life.3 But by November of the same year the Governor-General felt it necessary to make some further arrangements for facility of apprehension of the dacoits. So by Regulation 1X of 1808 it was provided

3 Regulation VIII of 1808, section iii.

Bengal Government Selections, No. XVIII, Correspondence relating to the Suppression of Dacoity in Bengal, 1854.
 Selections from the Records of Bengal Government No. XXXI. Report relating to the Suppression of Dacoity in Bengal for 1857-8.
 Reputation VIII of 1888 section :::

that notorious dacoits were liable to imprisonment or transportation for life, if they would not surrender themselves within the specified period of the proclamation. Provision was also made for rewarding persons giving information leading to the apprehension of the dacoits. Landholders, any of their officers or any of the Indian Revenue Officers of the Government were made punishable for their neglect to give any information of any dacoity or any dacoit. If any person, be he a Zamindar or an officer, was guilty of harbouring or assisting proclaimed dacoits, he was also to be punished. In the month of April 1837, a Commission for the Suppression of Dacoity was established. In 1839 the offices of the General Superintendent of Measures for the Suppression of thugee and the Commissioner for the Suppression of Dacoity were united. For the better suppression and apprehension of dacoits, Act XXIV of 1843 was passed. This Act provided that whosoever was proved to have belonged either before or after the passing of this Act to any gang of dacoits, either within or without the territories of the East India Company, was to be punished with transportation for life or with imprisonment for any shorter term with hard labour. A Commissioner for the Suppression of Dacoity in Lower Bengal was appointed under this Act on the 26th April 1852. Nadia district was included in the jurisdiction of this office in the month of April 1853.

Although dacoity was repressed to a very considerable extent, the Dacoity Commissioner brought to the notice of the authorities in 1861 the increase of burglaries.² This was probably a natural consequence. When the leading gangs were broken up, small parties took to the safer and equally profitable crime of burglary.

Besides burglary, cattle stealing was the common crime during the late half of the nineteenth century in the district, principally committed by cowherds and milkmen. Although there were agrarian outrages and murders also took place, serious crimes did not appear to be prevalent in Nadia, as observed by Hunter.³ Garrett also observed that Nadia no longer bore the unenviable reputation of being a crime district as it bore for the greater

The measure taken against the Thugs under Act XXX of 1836 was extended against the dacoits under this Act — differing in the punishment prescribed.

Annual Report relating to the Suppression of Dacoity in Bengal for 1861.
 Statistical Account of Bengal, Vol. II, London, 1875, p. 117.

part of the last century.1 He further observes, "At present there is no form of crime which is specially prevalent in the district. River dacoity which is characteristic of the eastern districts of the Division, is practically unknown in Nadia. Professional cattle thefts are fairly common, but not to a very marked extent."2

Although cattle theft still continued during the sixties (1961-69) of the present century, ordinary theft and burglary took the leading positions. But cattle theft had always a lead over sex crime, dacoity and murder. The respective annual average of these six major crimes during the said nine-year period was: ordinary theft, 1,353; burglary, 8000.7; cattle theft, 105.6; sex crime, 32.4; dacoity, 29.5 and murder, 24. The actual break-ups of the relevant figures would appear from the table below.3

INCIDENCE OF CRIME IN NADIA DISTRICT: 1961-69

Year	Dacoity	Burglary	Cattle theft	Ordinary theft	Murder	Sex Crime
1961	21	736	88	1,232	17	14
1962	19	757	84	1,317	17	21
1963	12	667	96	1,143	25	18
1964	22	639	163	1,162	26	25
1965	24	710	135	1,054	24	15
1966	33	808	74	119	23	18
1967	34	1,150	102	1,695	27	65
1968	58	978	110	1,635	23	61
1969	43	762	99	1,820	34	55
TOTAL	266	7,207	951	12,177	216	292

DISTRICT POLICE

The East India Company did not interfere with the police administration of the country immediately after acquiring the Dewani in 1765. The office of the Dewan was mainly for the collection of revenue. But it was soon realized that unless there was peace in the country the very collection of revenue would suffer. The East India Company under the Governor-Generalship of Warren Hastings started some police reforms. But the steps taken were half-hearted and no tangible improvement was effected till the arrival of Lord Cornwallis.

¹ J.H.E. Garrett, loc. cit.

Loc. cit.

³ Source: Deputy Inspector General of Police, C.I.D., West Bengal.

The present set up of the district police is in principle the same as obtaining in 1861 with minor changes in the organization. The only change since then has been in the matter of the total number of personnel deployed. The district police organization follows the general pattern of other districts and consists of a District Superintendent of Police assisted by an Additional Superintendent of Police working under the immediate supervision of the Deputy Inspector General of Police, Presidency Range.

There are 13 police thanas in the district of which eight are in the Sadar subdivision and five in Ranaghat subdivision. Each thana is under a senior Sub-Inspector of Police who is called the Officer-in-Charge of a thana. The Officer-in-Charge is assisted by two or three Sub-Inspectors of Police according to the size of the thana and according to immediate necessity. Each thana has its complement of Assistant Sub-Inspector of Police and constables. Every Sub-Inspector of Police is vested with the powers of investigation under Chapter XIV of the Criminal Procedure Code. A senior Assistant Sub-Inspector of proved ability is occasionally vested with the powers of investigation.

The Enforcement and Intelligence Branches have offices in the district and look after their respective duties.

Enforcement

Government Railway Police

Apart from the district police, there is another police organization on the same pattern, namely, the Government Railway Police having jurisdiction over the Railway lines and premises situated in the district. There is a Government Railway Police Station at Ranaghat with outposts at Ranaghat, Kalyani, Krishnanagar, Banpur and Gede. The organization is under the Superintendent of Railway Police at Sealdah. The total number of crimes investigated by the Government Railway Police within the jurisdiction of the district was 1,510 in 1970-71.

Rural Police

"In ancient times the village watchman was an officer maintained by the vilage community in which he lived. During the Muhammadan rule the Zamindars who were appointed to collect the Emperor's rent were also charged with responsibility for conducting civil and criminal administration including the policing of rural areas. The watchman who was originally the servant of the village community and maintained by them was thus merged into the Zamindari establishment. The police administration, if it can be so called, remained in the hands of the Zamindars until the East India Company decided to

create a separate police force in 1792. In that year they issued a proclamation transferring the police administration to their own officers and relieving the Zamindars of their police functions. The office of Daroga was created and the village watchmen were placed under his authority. The system, however, did not prove a success, the main reason assigned being the unsatisfactory and insufficient provision made for their support. By Regulation XIII of 1813 a chaukidari system by which the inhabitants were made to pay for their watchman was introduced into the larger cities and this was gradually extended to many of the rural areas of Bengal. The term chaukidari as applied to the village watchman dates from this time. Provision was made in Regulation XX of 1817 to legalize this extension of the town chaukidari system to the district." During the next fifty years the village watch system became the subject of many criticisms, which mainly centred round these two theories: (1) whether the village watchman should be essentially a village servant subject in all essentials to the control of village authorities and (2) whether he should be essentially an integral part of the police machine, the villagers being merely required to pay for him. Legislations from 1870 to 1905 weakened the connexion between the villagers and the village police and thus brought the latter more and more under the control of the district Magistrate and the Superintendent of Police. the 'village servant' theory adopted in the Act of 1870^a was

सत्यमेव जयते

¹ Report of the Chaukidari Enquiry Committee: 1938-40, p. 125.

Sir Rivers Thompson, in introducing the relevant Bill in the Bengal Council, 22nd January 1870, gave an account of the village police as it existed then, which is worth quoting: "As at present constituted, the organization of the village police is radically bad. The village policeman is appointed by the Zamindar and the village community or by one of these two. He is also maintained by them either by lands or by wages in money or kind; he is also their servant. He is a fellow-villager of the villagers and almost universally he is a tenant of the Zamindar. His wages, if he is paid in money or in kind, are always ludicrously insufficient, are generally in arrears, and are seldom paid regularly. His lands if they are sufficient for the maintenance, are also of that extent that they occupy the whole of his time to cultivate. When they are insufficient—and they always are so—what is the village watchman to do? He must live and he usually not only lives but thrives not unfrequently by being the leader and most usually by being the participator in or the conniver at, the offences it is his duty to prevent or discover and disclose." For the utter inefficiency of the village watch as an instrument in the prevention and detection of crime insufficiency of pay was not the only fault. Also cf. G. Toynbee, Chowkidari Manual, Calcutta, 1887, pp. 17-9 for the duties of chaukidar; W. R. Gourlay, A Contribution towards a History of the Police in Bengal, Calcutta 1916, pp. 106-7.

to some extent abandoned in favour of the 'Police Officer' theory. This tendency received a check after the report of the Police Commission, and a system of dual control between the Union Board and the Magistrate was embodied in the village Self-Government Act of 1919. Whether that was the best working system was one among the subjects of inquiry of the Chaukidary Enquiry Committee, 1938-40. The Committee, among other things, was of view that the scope and intention of the powers and duties of the village watchmen should be intelligently appreciated by all concerned, that is, the Union Boards, the police and the watchmen themselves. This appreciation has probably become a fact with the passage of the West Bengal Panchayat Act, 1956.

A semi-official organization with local volunteers, the Nadia Unit of the West Bengal National Volunteer Force is headed by a Company Commander responsible to the State Commandant, Chief District Commandant or Deputy Chief District Commandant for overall administration of his unit, including enrolment of recruits for basic training. He has under him 2 Assistant Company Commanders and 10 Platoon Commanders.

During 1970-71, the force was called up for various duties connected with law and order, harvesting, cordoning, mid-term election, etc. Total establishment expenditure for the unit during the said year was Rs. 91,976.3

During the regime of the East India Company, foujdari jails were crowded with numerous criminals, whose maintenance proved to be a serious problem for the Government. Reforms of the jails had to be undertaken. For instance, the foujdari jail at Krishnanagar was materially improved after 1792. Up to the year 1860, the administration of the district jails had been the responsibility of the Magistrates. But with the passage of time the Magistrates became so over burdened with other works that they found little time to look after the jails. Eventually, Civil Surgeons, who had only medical charge of the

National Volunteer Force

PRISON AD-

Report of the Police Commission in 1902-3.
 This committee sat among other places at Krishnanagar on 26th and 27th November 1938 and examined the Chairman of the District Board, the Circle Inspector and Circle Officer, Sadar, ten selected Presidents from the five sub-divisions of the district, the District Magistrate and the Superintendent of Police,

Source: State Commandant, West Bengal National Volunteer Force.
 N. Majumdar, Justice and Police in Bengal, Calcutta, 1960, p. 291.
 According to T. K. Banerjee a new jail at Nadia along with those at different other districts was completed during 1796-98. Background to Indian Criminal Law, Calcutta, 1963, p. 322.

jails, were invested with the entire charge. A full jail establishment during the latter half of the nineteenth century consisted of the Superintendent or Officer-in-Charge, Jailor, Naib or Deputy Jailor, paid Trunkey establishment, Police or Special Guards, Clerk or Writer, Warden and Work-Overseer establishment.

At present, there is a District Jail at Krishnanagar and a Subjail at Ranaghat. A whole-time Superintendent holds charge of the District Jail. He is assisted by a Jailor and a Deputy Jailor. The Subdivisional Officer, Ranaghat is the part-time Superintendent of the Sub-jail there. The Subdivisional Medical Officer acts as the Medical Officer and ex-officio Deputy Superintendent of the Sub-jail.

Prisoners of the Sub-jail are mostly under trial. Convicts with sentences for more than fourteen days are transferred to the Krishnanagar District Jail. The Krishnanagar Jail has accommodation for 498 prisoners, while the Ranaghat Sub-jail has accommodation for 61. The daily average of prisoners in 1972 in the Krishnanagar Jail was 38.82 for convicts and 665.64 for undertrials, while in Ranaghat Sub-jail it was 26.49 for convicts and 161.18 for undertrials. In 1970 and 1971 respectively 14,927 and 15,387 prisoners received medical treatment in the Krishnanagar District Jail, while during those years the number of prisoners treated medically in the Ranaghat Sub-jail was 7,585 and 7,665 respectively.

The prisoners receive general treatment as provided for in the West Bengal Jail Code. There is arrangement for imparting compulsory literacy to illiterate prisoners. They are provided with facilities to prosecute higher studies and to appear in the School Board and University examinations. They are supplied with daily newspapers and are allowed to participate in indoor and outdoor games. They also take training in weaving, tailoring and laundry service, such facilities being provided within the jail.

The daily average number of juvenile delinquents in the Krishnanagar District Jail is 32.13, most of them being illiterate and their ages ranging between 15 and 21 years. The number of juvenile delinquents in the Ranaghat Sub-jail during 1972 was

Juvenile delinquents

¹ A. P. Howell, Note on Jails and Jail Discipline in India, Calcutta,

^{1868,} p. 4.

W. Z. Healey, Administration Report on the Jails of the Lower Provinces, Bengal Presidency for the year 1871, Calcutta, 1872.

559 of whom 258 were below 10 years and 301 above 10. Of the said delinquents, 277 were literate and 282 illiterate.

There is a Probation Officer in the district headquarters who recommends to trying courts the cases of offenders who can be released on probation instead of being sent to jail. He makes necessary inquiries about the offenders for the purpose. He also supervises the offenders who are released on probation.

For the purpose of excise administration the district is divided into four circles, each consisting of certain police stations. Kotwali, Navadwip and Krishnaganj police stations are in the Sadar circle. Ranaghat circle is constituted of Ranaghat, Shantipur and Hanskhali police stations; Chakdaha circle has within its jurisdiction Chakdaha, Haringhata and Kalyani police stations; while Bethuadahari circle consists of Nakasipara, Chapra, Kaliganj, Tehatta and Karimpur police stations. Subordinate to the District Collector, the Superintendent of Excise looks after the administration of these excise circles.

The Superintendent has under him one Inspector having jurisdiction over the entire district and another Inspector for Kalyani Brewery. There are in all five Sub-Inspectors, one each for the four excise circles and another for the Krishnanagar warehouse. There are also four Assistant Sub-Inspectors, of whom one is attached with Kalyani Brewery, and thirtythree constables.

The following table would indicate the number of licences issued for the sale of excise articles.

LICENCES ISSUED: 1962-63 to 1970-711

Country Foreign Pachai Ganja Bhang Opium Year spirit liquor Tari 1962-63 1963-64 1964-65 1965-66 1966-67 1967-68 1968-69 1969-70 1970-71

EXCISE ADMINIS-TRATION

¹ Source: Commissioner of Excise, West Bengal. For a comparative interest, number of licences in force during 1870-71 are given: Country spirits—54; tari—36; pachai—20; bhang including siddhi, sabzi—5; ganja—92; opium—84. Vide, Report on the Financial Results of the Excise Administration in the Lower Provinces, 1871-72.

There is no area under prohibition; but all the excise and opium shops are to be kept closed on the Independence Day, Mahatma Gandhi's Birth Day, Republic Day and Mahashtami Day. The licensees of the excise shops have also the option to keep their shops closed on these days, namely, Netaji's Birth Day, Rathayatra, Janmashtami, Saraswati Puja, Ramnavami, Idul-fitr, Bakr id, Fateha Duaz doham, Muharram, Jagaddhatri Puia and the first Day of the Baiśākh, the Bengali month.

A brief outline of the evolution of the criminal courts in the district, namely, the Court of the District Magistrate and the courts of the Magistrates of the First, Second and Third classes and the Court of Sessions has been given in Chapter IX of this volume. The composition and powers of the different courts including the Court of Sessions were finally codified in the Criminal Procedure Code which superseded all previous Orders, Regulations and Acts on the subject. Hunter notes that there were twelve magisterial courts in the undivided district of Nadia in 1869. In the present district of Nadia the number of magisterial courts is also twelve. The total number of working days spent by these twelve Magistrates for the administration of criminal justice was 2,084 days. The district has one Sessions Judge and one Assistant Sessions Judge. The total number of days spent on Sessions trial in the district in 1969 was about 480 days.

GENERAL RESULTS OF TRIAL OF CRIMINAL CASES IN NADIA DISTRICT: 1965-692 1965 1967 1968 1969 1966 Magistrates: No. of offences reported 18,103 14,035 10,871 17,000 7,887 No. of persons under trial 34,568 22.628 18,673 25,291 27,313 Persons whose cases were disposed of: Acquitted or discharged 6,982 7,000 12,114 6,348 10,577 Convicted 13,683 9,020 5,103 6,887 5,743 Committed or referred 294 242 255 558

CRIMINAL **IUSTICE**

¹ W. W. Hunter, Statistical Account of Bengal, Vol. II, London, 1875, p. 116.

Source: High Court, Calcutta.

Contd.					
Died, escaped or					
transferred	388	514	313	1,359	427
Persons under trial at					
the end of the year	8,089	5,870	6,654	9,487	10,566
No. of cases					
disposed of	14,310	9,830	7,114	8,351	8,524
Courts of Sessions:					
No. of offences					
reported	84	83	92	141	141
No. of persons					
under trial	424	304	335	698	568
Persons whose cases					
were disposed of:					
Acquitted or	£200	(2)			
discharged	236	177	130	251	310
Convicted	93	59	63	1 5 0	88
Committed or		18300			
referred	3	337/0/1	1	_	2
Died, escaped or	AL LA	779			
transferred	6	44 2	1	2	1
Persons under trial at	1	EM 72			
the end of the year	86	65	140	295	167
No. of cases		285			
disposed of	67	67	68	82	96
	77777				

The total number of witnesses examined and the amount paid as expenses in the district in recent years are given below.

	No. of witnesse	s examined	Amount paid	as expenses
Year	Magistrates	Sessions	Magistrates Rs.	Sessions Rs.
1965	16,743	1,153	68,937	6,483
1966	14,456	1,263	59,09 0	6,291
1967	14,558	1,231	77,203	6,072
1968	14,027	1,634	70,318	8,07 0
1969	14,777	1,657	7,908	8,954

Source: High Court of Calcutta. For a comparative interest relevant figures of witnesses examined in the magisterial courts with the periods of their attendance in 1869 are given: one day, 8 327; two days, 1024; three days, 82; more than three days, 25. In 1969, the number of witnesses discharged on the 1st day by the magisterial courts was 11,619; on the second day, 2,710; on the third day, 1,033.

Civil Justice

At the time of East India Company's accession to the Dewani of Bengal, there were two types of civil judicature operating at Murshidabad, the headquarters of the civil administration, namely. (1) the court of the daroga-i-adalat and (2) the court of the daroga-i-dewani-adalat. The former tried and decided all matters of property, except claims of land and inheritance, and took cognizance of quarrels, fighting and abusive names. The Naib or deputy to the Nazim presided over this court. The latter was a deputy to the Dewani, who decided all claims of real property in land and succession.1 Though with the grant of Dewani, the Company virtually attempted to take over the administration of the country, yet in the eye of law they (that is, the Company) were mere Collector of revenue. Hastings became the Governor of Bengal in 1772. He proposed a plan which was immediately adopted by the Government, under which Mofussil Dewani Adalats or Provincial Courts of Justice, superintended by Collectors of revenue, were established in each district. Thus the district jurisdiction of the civil courts, which had disappeared several years earlier owing to the disintegration of the Moghul administration, was reconstructed and the same was made distinct from the criminal court. Its cognizance extended to all civil disputes of property, inheritance, marriage, caste, debt, accounts, contracts, partnership and rent. The European Collector of the district was to preside on the part of the Company and administer civil justice with the help of the District Dewan and other Indian Officers of the cutchery. The district courts were placed directly under the Sudder Court at Calcutta. In course of time this structure of civil administration of justice underwent changes, such as, the administration of civil justice was transferred from the European Collectors, who were recalled, to Indian Aumils, who were appointed instead. The superintendence of the collection of the revenue was vested in six provincial councils appointed at Calcutta, Burdwan, Dacca, Murshidabad, Dinajpur and Patna. By the Regulation of 1780, the jurisdiction of the six provincial councils was confined exclusively to revenue matters and it was resolved that for the more effectual regular administration of civil justice, district courts or Dewani Adalat should be established within the jurisdictions of the six provincial councils. Thus since Warren Hastings' scheme, there ensued a struggle between the civil and

¹ Proceedings of the Committee of Circuit, Kasimbazar, Vols. 1-3 (in one), pp. 118-20, 15 Aug., 1772.

revenue courts. Although reunion of civil and revenue iurisdictions took place in 1787, by Regulation III of 1793 courts of Dewani Adalat for the trial of civil suits in the first instance were established in twenty three zillahs and three cities. But the undefined character of rights and tenures under the Permanent Settlement opened the flood-gate of litigation. So the problem arose how to separate the magistracy from the office of the Judge for enabling the latter to devote his time and energy exclusively to civil justice. In Nadia a provision was doubtless made for such separation but the state of the service stood in the way and the operation of that provision could not extend to other districts. The general district structure was thus: "Below the city and zillah courts were two classes of inferior Judges. First in order were the Registrars of those courts who could decide cases for amounts not exceeding Rs. 200 subject to revision by the Judges. The next and lowest grade of Judges were the Native Commissioners, who under Regulation XL of 1793 could decide civil suits for sums of money or personal property of a value not exceeding 50 sicca rupees. Of these Officers, the Head Commissioners were called Sudder Ameens and the rest were called Moonsiffs." Thus during the sixties of the nineteenth century the civil judiciary in Nadia is found to consist of Judge and Additional Judge, Principal Sudder Ameen and Munsiff.3 In 1969, the civil judiciary in the district consisted of the Courts of the District Judge, Additional District Judge, Subordinate Judge, Additional Subordinate Judge, three Munsiffs, at Krishnanagar and two Munsiffs at Ranaghat.4

The suits which came up before the civil courts during 1965-70 were mainly title and other suits, closely followed by those

Source: High Court, Calcutta.

¹ B. B. Misra, The Central Administration of the East India Company:

B. Misra, The Central Administration of the East Initia Company. 1773-1834, London, 1959, p. 227.
 H. Cowell, History and Constitution of the Courts and Legislative Authorities in India, Calcutta, 1936, p. 177. Alterations had to be made by different Regulations from time to time owing to the rivalry between the civil and revenue courts. In 1823, the offices of Judge and Magistrate had to be separated in India (Home, Misc., 530, f. 769, 1821). The Adalate gentler was revised and placed upon a contraction. 12 June, 1823). The Adalat system was revised and placed upon a definite footing by the Bengal Civil Courts Act of 1871 which again became subject to changes with the passage of time under the exigencies of circumstances. It should also be mentioned here that Small Causes Courts were established in the mofussil areas in 1860.

Report on the administration of civil justice in the Lower Provinces of Bengal, 1869.

for money or movable property. Of the matrimonial suits, those for divorce were generally more than those for judicial separation or nullity of marriage or restoration of conjugal right. Suits under rent law were very seldom filed during this period. In support of these observations, a table is given in Appendix.



¹ Source: High Court, Calcutta.

APPENDIX

NO. AND DESCRIPTION OF CIVIL SUITS INSTITUTED IN THE CIVIL COURTS IN NADIA DISTRICT: 1965-70

HL	E CIVIL C	OURTS IN NA	IN THE CIVIL COURTS IN NADIA DISTRICT: 1965-70	1965-70		
	1965	1966	1967	1968	1969	1970
Suits for money or movable property	. 642	552	463	458	398	419
Suits under Rent Law Arrears of rent with or without ejectment	-	1	1	l	1	1
Title and other suits Suits for immovable property	1,665	1,234	1,237	1,156	1,566	1,503
Suits for specified relief	102	7	103	8 8	38 1	99 °
Mortgage sunts Other suits not falling under	मव ज		g.	97		'n
any of the previous heads	167	751	687	633	65	122
Matrimonial Suits		}	3			
Suits for divorce	45	9	34	25	30	18
Suits for judicial separation	15	22	18	19	23	13
Suits for nullity of marriage	16	9	7	12	v o	10
Suits for restitution of	5	ţ	ç	Ξ	;	5
conjugat rights Other suits not falling under	13	17	71	11	I	2 .
any of the previous heads	1	l	_	1	1	1
Grand Total	2,689	2,716	2,578	2,431	2,171	2,158

CHAPTER XII

LOCAL SELF-GOVERNMENT

HISTORY OF LOCAL SELF-GOVERNMENT

Local self-governing agencies in the district can be classified into two groups, urban and rural. Urban agencies, namely, the municipalities came into being under the provisions of Act III of 1864 in which year were constituted the municipalities of Krishnanagar and Ranaghat. Shantipur, Navadwip, Birnagar Chakdaha municipalities were constituted successively, their respective dates of establishment being 1865, 1869, 1869 and 1886. All these municipalities are now re-constituted under the Bengal Municipal Act of 1932 as amended from time to time. Of the rural agencies, first to make its appearance was the District Road Cess Committee of 1871 with only one function, namely, of opening and maintaining roads. This Road Cess Committee was followed by the establishment of District Boards under Bengal Act III of 1885. The Nadia District Board since its introduction had been the educational, medical and sanitary authority for the rural areas of the district. The construction and maintenance of the communications was another main work of the Board. The authority of the District Board was shared to a large extent by the Local Boards. Nadia had five Local Boards at Krishnanagar, Ranaghat, Chuadanga, Meherpur and Kushthia (the last three places are now in Bangladesh). During the year 1895-96, another set of local self-governing agencies were constituted in the district. They were Union Committees which were four in number at Muragachha, Krishnagani, Poradah and Chuadanga (the last two places are now in Bangladesh).1 These Committees were entrusted with the control of pounds, village roads, sanitation and water-supply. The authority in respect to primary schools was restricted to inspection. Thus. more than one set of bodies were in operation to perform the municipal functions in the rural areas of the district. For a proper functional integration, the necessity for the fusion of separate bodies was increasingly felt. It was out of this feeling that Union Boards came into existence under the provisions of Bengal Act V of 1919. There were in all 131 Union Boards in the district, of which 33 were in Sadar (South) subdivision and 49 in Sadar (North) subdivision and 49 in Ranaghat sub-

J. H. E. Garrett, Nadia District Gazetteer, Calcutta, 1910, p. 122.

division.¹ These Union Boards and the District Board remained the rural self-governing agencies till the Gram Panchayats, Anchal Panchayats are constituted under West Bengal Act I of 1957, while the Anchalik Parishads and the Zilla Parishad are constituted under West Bengal Act XXV of 1963.

The Table 1 would indicate some important particulars of the municipalities as prevailing in 1969-70.

MUNICIPALITIES

The various sources of income along with the corresponding figures valid for 1969-70 are given in Table 2.

It becomes clear from the Table 2 that the municipal rates and taxes and grants and contributions are the two major sources of income. While the taxes are levied on houses, lands, animals, vehicles, professions and trade, rates are on water, lighting and conservancy. Grants and contributions comprise both revenue and capital grants. It is difficult to separate the two absolutely. The revenue subventions from the State Government constitute a major share of grants.

Since the municipal rates and taxes are the major sources of income of the municipalities, their efficiency in respect of their performance of the obligations naturally depend on their efficiency of realizing the income from this source. So an important aspect of the fiscal administration of the municipalities relate to assessments, collections, remissions and unrealized balances of rates and taxes. Table 3 would indicate these figures for the year 1969-70. The figures show a wide disparity in the performance of different municipalities. The reasons of such disparity are not quite apparent. This may be due to administrative failure, litigations, political problems, etc.

To what extent the municipalities performed their obligations would be clear from the figures of expenditures incurred by them during 1969-70 as shown in Table 4.

It becomes clear from Table 4 that two major heads of expenditure are general administration and collection charges and public health and convenience. Under the budgetary head public health and convenience, the three major items are conservancy, public works and water-supply. In terms of relative importance, expenditure for public instruction was very low.

¹ Government of West Bengal, List of Union Boards in West Bengal, Alipore, 1955, pp. 39-42.

TABLE 1

		Occupi	Occupied residential				Incidence of
		ſ	houses				taxation per
	Area in	No. of	No. of	Ĭ	Total No.	No. of rate	head of popu-
Municipalities	sq. miles	s houses	households		of persons	payers	lation (in rupees)
Krishnanagar	6.10	12.190	11,906		70,440	10,147	10.17
Ranaehat	2.98	6,150	6.294		35,266	6,209	8.52
Birnagar	2.13	1,509	1,395		7,623	3,810	2.37
Shantipur	9.50	8,953	9,365	16	51,190	14,600	4.17
Chakdaha	90.9	7,045	22	Charles of the Control of the Contro	35,089	7,115	2.51
Navadwip	4.50	12,781	त्यमे		72,861	15,413	68.9
Source of Income		Krishnanagar	Ranaghat	Birnagar	Shantipur	Chakdaha	a Navadwip
Balance in hand at the close of the year 1968-69	f.	1,24,029.24	71,683	9,228	53,258.87	35,504	1,21,680
Municipal rates and taxes		7,16,000.24	3,06,037	18,000	2,84,819.21	88,139	5,02,112
Realization under special acts	ıder	12,971.15	3,017	304	148.45	706	22,560

30,086 3,65,069 4,540 98,540

14,542	60,061	52,368	2,53,489		1,65,617
9,394.00	2,11,949.57	18.219.26	5,37,660.22		4,66,182.09
29,735	53,141	12,086	1,22,499		1,01,185
46,310	2,23,554	28,902	7,05,990	नयते	6,05,405
10,386.86	4,63,694.55	69,258.72	14,18,155.60		12,24,867.64
Revenue derived from municipal property and powers apart from taxation	Grants and contributions	Extraordinary and debt	Total receipts including opening balance	Total ordinary income (excluding opening balance and	the amount under extraordinary and debt head)

TABLE 3

DEMAND, COLLECTION, ETC. OF THE MUNICIPALITIES OF NADIA DISTRICT: 1969-70

	Krishnanagar	Ranaghat	Birnagar	Shantipur	Chakdaha	Navadwip
DEMAND	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Arrear	4,61,257.82	4,19,397	40,861	1,69,016	52,011	4,20,564
Current	7,06,902.33	3,77,582	41,835	2,14,200	85,870	3,75,629
Total	11,68,160.15	7,96,979	82,696	3,83,216	1,37,881	7,96,193
COLLECTION	1.58.109.99	1,19,079	9.636	98.743	19,271	1,54,992
Current	4,84,907.70	2,24,945	24,371	99,970	59,971	2,38,789
Total	6,43,017.69	3,44,024	34,007	1,98,713	79,242	3,93,781
PERCENTAGE						
Of current collection						
on current	74	29.57	58.25	46.62	69 83	63.57
Of arrear collection						
on arrear demand	47	28.39	23.58	50.83	37.05	36.85

49.47	39 13,774 13,813	0.57	3,84,082
57.47	N.A. 104	.00	58,535
51.81	6,796 3,976 10,772	2.67	1,73,731
41	529 1,448 1,977	2.39	46,712
43.16	N.A. 18,707 18,707	सन्यमन जयन	4,34,248
on 1d 64	60,894.69 33,057.63 93,952.32	89. 20.	4,20,294.05
Of total collection on total demand REMISSION	Arrear Current Total	Percentage of total remissions on total demand	OUTSTANDING BALANCE

EXPENDITURE OF THE MUNICIPALITIES OF NADIA DISTRICT: 1969-70

		(In Rupees)				
Heads of expenditure	Krishnanagar	Ranaghat	Birnagar	Shantipur	Chakdaha	Navadwip
General administration and collection charges	1,74,847.97	90,126	24,381	93,704.95	37,129	1,08,517
Public safety	34,650.64	44,186	4,986	26,837.85	11,149	21,538
Public health and convenience	7,32,195.34	4,78,463	63,861	2,95,636.06	58,059	4,61,161
Public instruction	96,083.17	2,955	1,640	39,233.03	i	ł
Contributions	101.00				41,960	1
Miscellaneous	1,78,232.66	18,411	2,099	9,138.74	49,521	3,47,605
Extraordinary and debt	32,651.97	23,860	9,460	30,247.45	36,177	1,12,326
Total expenditure	12,48,661.75	6,58,091	1,06,515	4,94,798.08	1,92,034	10,51,147
Total ordinary expenditure (excluding the amount under extraordinary and debt head)	12,16,009.78	6,34,231	97,055	4,64,550.63	1,55,857	9,38,821

Panchayats in the rural areas were formed with the coming into force of the West Bengal Panchayat Act, 1957. The West Bengal Zilla Parishads Act, 1963 similarly came into being to provide for the re-modelling of Local Government with a view to associating the local authorities with development activities and bring about democratic decentralization and people's participation in planning and development.

The Nadia Zilla Parishad came into existence on 23rd October 1964. In 1968-69, the Nadia Zilla Parishad had 41 members of whom 39 were men and 2 women. Of the members, 37 were Hindus including 2 belonging to the Scheduled Castes, while 4 were Muslims. There were, during 1968-69, 7 Standing Committees of the Parishad. The following table gives information about their meetings.

Panchayati institutions

Standing Committees	No. of meetings	No. of members	Average attendance
Finance and Establishment	15	10	7
Public Health	1	- 20	10
Public Works	11	12	9
Agriculture and Irrigation	4	12	8
Industry and Cooperation	2	12	6
Public and Social Welfare	3	10	5

Appointed by the State Government the Executive Officer who is a member of the West Bengal Civil Service runs the administration of the Parishad and secures coordination between the Parishad, its Standing Committees and the district level officers concerned with the panchayati functions. The complement of personnel under him during 1968-69 included a Head Assistant, an Accountant, 10 Assistants and 7 Inferior staff. Besides the District Engineer, the Civil Engineering unit of the Parishad consisted of 3 Overseers, a Sub-Overseer, 3 Assistant Estimators, a Driver, 2 Compositor-Pressmen, 2 Office Assistants and 18 Inferior Staff including Chowkidars. The medical services of the Parishad were looked after by 8 Medical Officers assisted by 8 Compounders and 10 others. An Administrator, appointed by the State Government, took over the entire administration of the Parishad on and from 24th April 1969.

The following table would indicate the income composition and expenditure pattern of the Parishad for 1968-69:

¹ The first incumbent joined on 6 May 1965.

NCOMES	AMOUNT	EXPENDITURE	AMOUNT
Head of account	Rs.	Head of expenditure	Rs.
Opening balance		Establishment	
For specific schemes	1,60,002	Salaries and allowances	
Untied funds	2,11,930	personnel	1,50,682
Grants and contributions by the Central/State Governments		Travelling Allowance personnel	of 3,342
Land revenue	77,008	T.A. to the members Parishad	of 6,210
Augmentation	14,000	Office charges	8,841
Subvention for dearn	F 1765 / 148 Sc	Office charges	0,041
Test relief	6,305	Allotment to Anchali Parishads	k 32,000
			22,000
For specific schemes ot than relief	her 11,500	For execution of schemes	3,89,871
Other Government grants	4,971	Grants to public institution	ns 10,937
Proceeds of Road Cess	1,78,500	Scholarships and wards	385
Receipts from toll, rates etc.	1,20,110	and a	
Receipts from institutions	7,229	Other expenditure	42,067
Fines, penalties, etc.	1,655	Debts, deposits and ac	-
Other receipts recovered		van ces	47,693
by/or on behalf of th Parishad	1,08,166	Total expenditure	6,92,028
Debts, deposits and advar	nces 11,109	Closing balance	
Total receipts	5,81,979	For specific schemes	92,08 6
Total income including opening balance	9,53,911	Untied funds	1,69,797

The district had 16 Anchalik Parishads during 1968-69. The composition of each of them is given in table below:

Anchalik Parishads

Name of the Anchalik Parishad	Area in sq. miles	Population	No. of members
Talles at	104	1 10 530	25
Kaliganj	124	1,12,538	35
Krishnaganj	54.43	52,151	23
Karimpur	184.84	1,46,038	32
Nakasipara	139.09	1,19,241	35
Navadwip	40.21	51,998	22
Chapra	124.95	1,01,124	32
Tehatta I	96.37	87,500	28
Tehatta II	71.22	52,415	16
Krishnanagar I	87.66	79, 616	30
Krishnanagar II	45.46	66,662	18
Shantipur	65.50	61,445	26
Chakdaha	100.77	1,41,412	30
Ranaghat I	64.02	61,224	27
Ranaghat II	106.90	1,06,561	29
Hanskhali	94.03	84,162	26
Haringhata	65.02	68,340	20

Each Anchalik Parishad maintained funds to which were credited grants from the Panchayat Department, receipts from the Zilla Parishad and receipts on account of tolls, rates and fees levied by it. It was from this fund that each Parishad incurs its diverse expenditure. The two tables in Appendices A and B would indicate the patterns of income and expenditure of the Parishads for 1968-69.

Table 5 would indicate Anchalik Parishad-wise number of Anchal Panchayats along with figures relating to the population covered by them, number of households within their respective jurisdictions and the number of tax, rates and fees payers under different clauses of Section 57 of the enabling legislation.

The total number of members of the Anchal Panchayats as also the number of meetings and average attendance would be clear from Table 6. ANCHAL PANCHAYATS

TABLE 5

No. of tax, rates & fees payer

			_			
,			No. o	f tax, rates	& fees p	ayers
Name of Anchalik	No. of	No. of	Under	Under	Under	Total
Parishad	Anchal	house-	Sec.	Sec.	Sec.	
	Pancha-	holds	57(1)(a)	57(1)(b)	57(2)	
	yats		D	n	D.a	ъ.
Kaliganj	13	22,488	Rs. 21,364	Rs. 2,444	Rs.	Rs.
Krishnaganj	7	10,839	9,808	2, 444 890	4,480 1,563	28,288 12,261
Karimpur	13	29,606	27,780	1,204	5,006	33,990
Nakasipara	13	26,924	24,587	3,430	3,672	31,689
Navadwip	7	9,626	7,973	1,560	93	9,626
Chapra	11	18,335	18,335	3,835	4,620	26,790
Tehatta I	8	12,865	16,764	2,875	2,730	22,369
Tehatta II	6	11,588	11,510	2,205	1,912	15,627
Krishnanagar I	11	17,145	16,250	523		16,773
Krishnanagar II	4	10,034	9,358	1,238	381	10,977
Shantipur	8	13,872	8,844	2,367	1 250	11,211
Chakdaha Banashat I	III	24,018	23,348	1,659	1,250	26,257
Ranaghat I Ranaghat II	9	14,432 21,725	13,014 21,216	1,403 1,026	15 3,983	14,432 26,225
Hanskhali	8	19,319	17,941	1,425	5,048	24,414
Haringhata	5	11,899	9,297	3,666	2,115	15,078
	WWW		30			
	11 1	TABLE	T .			
	Tota	1 No. c	f			
Name of the	477386	ers of	1010	No. of		erage
Anchalik Parishad	Anchal	Panch	ayat m	eetings	atte	ndance
Kaliganj	Visite S	280		103		12
Krishnaganj	-	133	10	168		12
Karimpur	स्रह	323	R	162		12
Nakasipara		215		140		10
Navadwip		112		69	•	8
Chapra		221		60		13
Tehatta I		127		7 9		9
Tehatta II		134		64		10
Krishnanagar I		212		123		8
Krishnanagar II		175		36		11
Shantipur		98		74		10
Chakdaha		294		165	;	21
Ranaghat I		101		79		9
Ranaghat II		185		94		8
Hanskhali		196		85		13 ՝

A Secretary supervises the day to day business of each Anchal Panchayat which has also a dafadar, chowkidars and other staff to maintain.

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15

Haringhata

The income break-up of the Anchal Panchayats valid for the year 1968-69 is as follows in the table:

Name of the Anchalik Parishad	Total of tax, rates, etc. realized	Total of grant & contribution by the Panchayat Department	Receipt from the Anchalik Parishad	Receipts from other sources
	Rs.	Rs.	Rs.	Rs.
Kaliganj	71,640.83	63,132.40	4,600.00	9,346.38
Krishnaganj	19,815.60	34,314.63	1,600.00	6,294.38
Karimpur	72,739.54	70,928.85		9,196.45
Nakasipara	44,865.97	59,489.75	1,050.00	8,813.22
Navadwip	13,420.85	29,646.10		3,063.60
Chapra	53,149.87	58,832.00	-	16,069.93
Tehatta I	34,081.47	42,245.73	_	6,326.86
Tehatta II	31,416.35	27,524.67		898.47
Krishnanagar I	35,311.89	53,448.61	8,606.87	10,911.33
Krishnanagar 11	16,345.52	27,347.65	1,650.00	303.95
Shantipur	18,236.43	37,816.06	239.00	565.35
Chakdah a	36,876.99	46,474.45	7,368.07	7,990.16
Ranaghat I	20,569.45	42,059.05	_	
Ranaghat II	37,197.71	59,501.54	12,741.78	3,732.60
Hanskhali	31,394.16	42,135.01	_	6,002.03
Haringhata	22,086,85	22,320.30	500.00	2,493.80

The break-up of the expenditure incurred by Anchal Panchayats for the year given in the table below:

Name of the Anchalik Parishad	Total expenditure in respect of grants received from the Panchayat Department	Expenditure in respect of grants from the Anchalik Parishad	Other expenditure
Kaliganj	63,132.40	4,600.00	90,434.15
Krishnaganj	34,314.43	1,321.00	28,592.27
Karimpur	70,928.85	_	81,646.50
Nakasipara	59,489.75	1,050.00	47,417.73
Navadwip	29,646.10	2	15,814.45
Chapra	58,832.00	- A	71,758.47
Tehatta I	42,245.73		39,785.20
Tehatta II	27,452.30	### 	30,926.61
Krishnanagar I	51,736.61	41 -	39,479.19
Krishnanagar II	21,545.23	1,110.00	13,203.17
Shantipur	37,221.96	239.00	17,929.93
Chakdaha	46,474.45	10,050.07	48,238.04
Ranaghat I	39,859.24	-191	13,215.60
Ranaghat II	59,501.54	12,539.64	44,769.87
skusH	35,695.41	****	45,950.53
Haringhata	21,018.10	499.77	29,158.95

GRAM PANCHAYAT The number of Gram Panchayats within each Anchalik Parishad along with their strength of members and the number of meetings of the Gram Panchayats, and the average attendence thereof valid for the year 1968-69 are furnished in the table below:*

^{*} Some of the Gram Panchayats within the Chapra and Tehatta I Anchalik Parishads were not functioning during the year.

Name of the Anchalik Parishad	No. of Gram Panchayats	No. of members	No. of meetings	Average attendance
Kaliganj	88	971	402	86
Krishnaganj	41	492	246	41
Karimpur	100	1,115	835	125
Nakasipara	95	1,084	431	
Navadwip	39	490	124	39
Chapra	81	977	274	14
Tehatta I	58	612	225	
Tehatta II	42	510	174	47
Krishnanagar I	60	740	311	18
Krishnanagar II	45	32 5	96	
Shantipur	40	483	85	39
Chakdaha	74	885	619	85
Ranaghat I	53	609	145	103
Ranaghat II	78	793	270	97
Hanskhali	60	774	474	68
Haringhata	50	554	185	65

The tables in Appendices C and D would indicate the income composition and expenditure pattern of the Gram Panchayats for 1968-69.

The West Bengal Panchayat Act, 1973 (Act XLI of 1973) has been assented to by the President of India in 1974. It supersedes the West Bengal Panchayat Act, 1957 and the West Bengal Zilla Parishads Act, 1963 and provides for the formation of the Zilla Parishad, Panchayat Samitis and Gram Panchayats. Thus a three-tier system of rural bodies instead of a four-tier one has been introduced in the State.

THE NEW ACT

APPENDIX A

INCOME OF THE ANCHALIK PARISHADS OF NADIA DISTRICT: 1968-69

				Allotment received from other		Receipts on account of			
			Receint		Allotment	and fees			Total
	Opening	Opening balance	from	execution	from the	the Anchalik	Gifts,		including
Name of the Anchalik Parishad	Specific	Untied	Fanchayat Department	of specific project	Zulla Parrishad	Farishad	contributions, etc.	Other	opening balance
	Rs.	Rs.	Rs.	RS.	Rs.	Rs.	Rs.	Rs.	Rs.
Kaliganj	15,023.50	7,615.55	7,469.25	41,414.25			I	I	71,522.55
Krishnaganj	3,486.00	6,986.94	14,813.00	25,925.00	2,656.00	336.00	4,407.50	1	58,610.44
Karimpur	13,109.90	8,000.00	4,813.00	1	11,608.82		I	9,685.61	47,217.33
Nakasipara	35,343.91	1		20,946.00	21,311.25	I		ĵ	77,601.16
Navadwip	23,252.55	3,768.85	4,813.00	5,484.00	3,056.25	-	I	l	40,374.65
Chapra	8,323.08	9,527.15	4,813.00	31,151.45	2,000.00	40.00	I	I	55,654.68
Tehatta I	1	11,817.32	4,813.00	22,100.63	15,204.25	225.00	1		54,160.20

LOCAL SELF-GOVERNMENT

2,960.53 1,14,618.22

14,811.25

46,290.00

6,038.00

2,376.64

42,141.80

Haringhata

Tehatta II	7,776.72	4,335.99	6,063.00	11,079.25	2,000.00	l	1,937.25	8.00	33,200.21
Krishnanagar I	8,386.01	7,512.13	4,813.00	22,007.40	3,056.25	l	l	944.00	46,718.79
Krishnanagar II	8,778.87	8,706.97	4,813.00	11,366.00	3,056.25	l	I	1,043.57	37,764.66
Shantipur	ł	1,65,963.40	6,581.00		3,496.25	1	1	4,735.00	1,80,775.65
Chakdaha	ł	17,505.60	5,713.00	9,814.00	39,677.00	1	l	1,975.50	74,685.90
Ranaghat I	7,008.35	26,616.78	6,063.00	7,185.00	2,656.25		14,039.76	1,829.00	65,398.14
Ranaghat II	29,894.95	7,220.46		12,417.00	2,000.00	ļ		1	51,532.41
Hanskhali	12,529.55	6,855.90	4,813.00	41,990.00	12,896.25	l	1	1	79,082.70

APPENDIX B

EXPENDITURE OF THE ANCHALIK PARISHADS OF NADIA DISTRICT: 1968-69

		Allotment to	Expenditure incurred by the Anchalik		Total		Closing balance	
Name of the nchalik Parishad	Name of the Establishment Anchalik Parishad expenditure: total	Gram & Anchal Panchayats	Parishad for Development work	Other expenditure, refund, if any	expenditure of Anchalik Parishad	For specific schemes	Untied funds	Total
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
	4,418.74	4,950.00	867.50	18,279.91	28,516.15	27,264.25	15,742.15	43,006.40
Krishnaganj	6,005.33	500.00	20,105.31	1,750.00	28,360.64	22,366.47	7,883.33	30,249.80
Karimpur	6,972.50	ţ	2,393.80	2,863.04	12,229.34	24,652.10	10,335.89	34,907.99
Nakasipara	5,899.52	!	7,049.98	Ì	12,949.50	١	64,651.66	64,651.66
Navađwip	5,721.85	ļ	3,312.38	6,992.00	16,026.23	19,089.22	5,259.20	24,348.42
	5,824.34	1]	14,922.57	20,751.91	21,361.97	13,740.80	35,102.77
Tehatta I	4,834.50	1	5,225.00	16,673.00	29,232.50	16,815.16	8,112.54	24,927.70

Tehatta II	6,115.45	ł	4,860.50	1,250.00	12,225.95	16,638.27	4,335.99	20,974.26
Krishnanagar I	6,100.70	8,606.87	11,409.22	1	26,116.79	19,428.19	1,173.81	20,602.00
Krishnanagar II	3,279.29	2,200.00	8,686.56	1	14,165.85	13,146.73	10,452.08	23,598.81
Shantipur	6,710.63	239.00	1	26,877.34	33,826.97	t	1,46,948.68	1,46,948.68
Chakdaha	5,954.29	7,368.07	7,380.74	1,353.99	22,057.09	48,880.47	3,748.34	52,628.81
Ranaghat I	5,265.01	ì	4,494.00	9,759.01	9,759.01	9,008.35	46,630.78	55,639.13
Ranaghat II	6,656.11	1	4,502.94		11,159.05	36,809.01	3,564.35	40,373.36
Hanskhali	5,527.17	1	15,957.21	l	21,484.38	50,998.59	6,599.73	57,598.32
Harinohata	8.663.45	1	18,259.90	1	26,923,35	85,853.48	1,841.39	87,694.87

APPENDIX C
INCOME COMPOSITION OF THE GRAM PANCHAYATS OF NADIA
DISTRICT: 1968-69

			Allotmen Anchal Par		Receipts from	Allot- ment received
Name of the	Opening I	Balance	From Pancha- yat Depart- ment	Own Source	gifts, endow- ments and other sources	from other sources for develop-
Parishad	Specific schemes	funds	***************************************		,	ment works
	Rs.	Rs.	Rs	Rs.	Rs.	Rs.
Kaliganj	Jan Jan	18,031.02	16,900.00	25,503.08	1,469.63	1,048.40
Krishnaganj	_@	4,130.25	9,062.00	52,00	4,100.00	
Karimpur		9,687.27	16,829.80		7,341.24	_
Nakasipara	_	4,651. 2 5	15,547.40	2,424.60	759.50	
Navadwip	-/	6,163.38	9,100.00	1,112.00	1,695.28	_
Chapra		20,447.28	14,800,00	17,018.78	3,709.00	
Tehatta I		955.56	10,400.00	7,380.50	487.45	_
Tehatta II	_	6,507.33	6,360.00	6,997.00	157.80	
Krishnanagar I	_	12,541.09	12,588.00	2,580.85	2,110.08	
Krishnanagar II		4,837.19	2,524.25		227.55	3,021.71
Shantipur	7,275.12	4,637.74	8,532.70		2,218.32	
Chakdaha	_	17,975.98	10,381.80	2,455.85	2,169.50	
Ranaghat I	12,302.07		11,327.21		_	_
Ranaghat II	116.20	19,947.64	14,240.60	9,919.45	2,455.68	119.34
Hanskhali		2,746.90	6,156.70	9,185.78	5,871.53	
Haringhata	-	3,262.92	5,200.00	5,982.00	1,260.33	_

APPENDIX D

EXPENDITURE PATTERN OF THE GRAM PANCHAYATS OF NADIA
DISTRICT: 1968-69

	Expend	liture	Closing	Closing balance		
Name of the Anchalik Parishad	For Development works	Other expenditure	For specific schemes	Untied funds		
	Rs.	Rs.	Rs.	Rs.		
Kaliganj	38,385.93	1,734.20	_	19,232.00		
Krishnaganj	14,260.00	1,025.00		2,050.75		
Karimpur	26,485.74	1,076.37		6,296.20		
Nakasipara	17,892.00	936.50		4,584.25		
Navadwip	10,665.97	435.72	-	6,968.97		
Chapra	37,211.44	2,553.96		15,709.66		
Tehatta 1	15,177.33	1,233.00		2,813.18		
Tehatta II	13,857.03	675.11	_	5,489.99		
Krishnanagar I	13,645.24	1,882.93		14,291.83		
Krishnanagar II	6,666.16	1,674.93		5,944.26		
Shantipur	8,451.19	499.65	.10,780.11	2,932.93		
Chakdaha	20,307.03	909.68	_	11,766.42		
Ranaghat I	10,887.01	_	_	12,742.27		
Ranaghat II	26,697.34	2,756.29		17,345.08		
Hanskhali	16,863.84	_	-	7,097.07		
Haringhata	13,288.33	860.23	-	4,204.12		

CHAPTER XIII

EDUCATION & CULTURE

EARLY HISTORY We have no record of institutionalized and organized activities concerning learning in the areas comprising the modern district of Nadia in ancient times. But the district, unlike many other districts of West Bengal, specially the areas in and around the towns of Navadwip and Shantipur, can boast of a fairly long and continuous tradition of cultivation of learning.

Tradition in India associates Navadwip with the cultivation of a kind of formal logic called *Navya-nyāya*. Although Mithilā in Bihar of the tenth century was the area where *Navya-nyāya* first developed, Navadwip, undoubtedly, was the centre where the Gauḍīya or the Bengal variety of *Navya-nyāya* was nurtured and elaborated till the first decades of the 20th century.

Myths and legends shroud the early history of Navadwip as a centre of learning. The first person to emerge from the realm of myth to the area of sober history was Narahari Vishārad, the father of the famous grammarian and logician Vāsudeva Sārvabhauma. Narahari was a scholar of smṛiti (law) from whom Vāsudeva Sārvabhauma had his training in grammar and logic. It may be presumed that Narahari did not run a regular seminary or tôl; he only taught his son Vāsudeva. But the title Vishārad or the 'accomplished one' suggests that teaching was his profession. Narahari was alive probably between the last quarter of the 14th and third quarter of the 15th centuries, part of which falls during the reign of Sultan Barbak Shah, the king of Gauḍa.¹

Narahari had a younger brother or a cousin named Srīnāth Bhaṭṭāchārya-Chakravarti who was also a logician of some repute.

Narahari Vishārad's son Vāsudeva Sārvabhauma was the first great logician of all-India repute that Gaudīya school of Navyanyāya had produced. Vāsudeva was born sometime between A.D. 1430 and 1435 and probably completed his education in logic and grammar between A.D. 1450 and 1455.² Around the year 1486, that is, in the year of Chaitanya's birth, Vāsudeva left Navadwip for Puri in Orissa. Up till now only two books

Dineshchandra Bhattacharyya, Bängdlīr Sārasvat Avadān, Vol. I: Bangey Navya-nyāyacharchā, Calcutta, 1358 B.S., p. 49.
 Ibid., p. 42.

by Vāsudeva Sārvabhauma have been discovered, one a commentary on the Anumānakhanda (inference portion) of Tattvachintāmaņi and the other a commentary on Vedānta-prakaraṇa Advaita-makaranda. Three other books commonly ascribed to Vāsudeva Sārvabhauma are possibly not his work. Vāsudeva, though primarily a logician, was also well versed in the six principal systems of Indian philosophy (which, however, include nyāya or logic).

Vāsudeva Sārvabhauma had a younger brother named Vishņudāsa Vidyāvāchaspati. According to tradition prevalent in Navadwip, the name of this particular brother of Sārvabhauma was Ratnākar, which seems to be incorrect. He also wrote a commentary on *Tattvachintāmaṇi*. Sārvabhauma had another brother, probably older than Vishņudāsa, whose name was Krishņānanda Vidyābiriāchi. According to Jayānanda, the author of *Chaitanyamangal*, when Sārvabhauma left for Puri, Krishṇānanda was still teaching logic at his seminary.¹

The year in which Vāsudeva Sārvabhauma left Navadwip for Puri and Chaitanya was born perhaps coincided. The accounts about the early life of Śrī Chaitanya, as told by his contemporaries like Murāri Gupta, Paramānanda Sen Kavikarņapūra, Vrindāvana Dās and Krishņadās Kavirāj give us some information about his early education in Navadwip.

Chaitanya, or Viśvambhar as he was then known, received his elementary education at the $p\bar{a}thb\bar{s}al\bar{a}$ or school of Vishņu Paṇḍit. Vishņu Paṇḍit was in all probability different from Vishņudāsa Vidyāvāchaspati who was a contemporary professor of logic at his own tol. After finishing his primary education, Viśvambar entered the tol or seminary of Gaṇgādās Paṇḍit and specialized in Sanskrit grammar of Kalāpa system. Murāri Gupta, his earliest biographer, was his class mate at this tol. At the age of sixteen, that is, around the year A.D. 1502, he finished his studies at the tol, distinguishing himself as a deft grammarian. After coming out of the tol, Chaitanya himself started giving tuition to the students by opening a tol at the house of Mukunda Sañjay.

It would be very interesting to try to reconstruct the system of institutionalized education prevalent during the 15th and 16th centuries in the district from the information at our disposal. It is evident that there were a set of elementary schools or $p\bar{a}th$

¹ Ibid., p. 62.

śālās, distinguished from the seminaries or tols of higher learning. These pāļhśālās presumably helped the youngsters in learning to read and write a language and in mastering some simple arithmetic. There is no way of knowing what else were taught at these pāthśātās or who were the people eligible to be taught at these $p\bar{a}ths\bar{a}l\bar{a}s$. Nor do we know anything about the medium of instruction of these $p\bar{a}th\dot{s}\bar{a}l\bar{a}s$. We do not know whether the language taught used to be Bengali or Sanskrit. About the system of education available at the seminaries of higher learning, that is, at the tols, to which one could enter presumably after finishing the education at the pāthśālā, we are on surer grounds. The tol education was meant to specialize the learner in a single subject besides grammar. Most of the tols in Navadwip specialized in logic of the Gaudīya variety of Navya-nyāya. Incidentally, it should be mentioned that the tols either specialized in any one of the six principal systems of Indian philosophy, kāvya and alankāra (poetry and rhetoric), iyotisha and ganita (astronomy, astrology and mathematics), etc. as the subjects had been developed through the medium of the Sanskrit language. So, higher education was available only in the Sanskrit language and was probably available only to the Brāhmaņas or at best to the regional higher castes like Vaidyas and Kāyasthas in Bengal. Whether it was the elementary school $(p\bar{a}th\dot{s}al\bar{a})$ or it was the seminary of higher education (tôl), the institution would invariably be a one-teacher institution. If the son or the nephew or a younger brother of a guru too was a scholar by his own right, the institution would continue its existence after the death of the guru or would simply close its doors after his demise.

We are speaking of a time when the Turko-Afghan Sultans were firmly entrenched in Lakhnauti with hegemony spreading over most of Bengal. Persian was the language of the court. It may be presumed that there were schools which taught Persian language and literature and Muslim law through the medium of Persian, at least for the children belonging to the Muslim gentry, comprising land-owing Ashrafs and the military nobility. But, unfortunately, we do not have any information about the existence of Persian-medium maktab or mādrāsāh within the bounds of the area comprising the present district of Nadia. Nor do we have any information about mosque-schools that imparted religious instructions through the medium of Arabic.

To go back to our survey once again, the next landmark in the history of education and cultivation of learning is the emergence of a scholar of all-India fame in Navadwip in the person of Raghunāth Siromani. The place of birth and nativity and the approximate time of birth of Raghunath Siromani are subjects of controversy among scholars. According to Dineshchandra Bhattacharyya, the latest to write on the subject, Raghunāth śiromaņi was born somewhere in or around Navadwip, between A.D. 1455 and 1460.1 After finishing his higher education in logic at the seminary of Vasudeva Sarvabhauma, Raghunath went to Mithila to the court of King Bhairav Simha to prove his prowess and scholarship. There he defeated Pandit Pakshadhar Miśra, the great logician, in a debate sometime between A.D. 1480 and 1485. On his return from Mithilā. he established his own tol in Navadwip and started teaching logic to his pupils. He probably established his tol sometime between A.D. 1480 and 1485, that is, before his erstwhile teacher Vāsudeva Sārvabhauma had left for Puri supposedly on account of rājabhaya or political persecution. Siromaņi obviously did not leave Navadwip.

Among many books ascribed to Raghunāth Śiromaṇi's authorship one can be certain about eleven books. These eleven were: (1) Pratyaksha-maṇi-dīdhiti, probably his first book, (2) Anumāna-dīdhiti, Raghunāth's most known book, (3) Sabda-maṇi-dīdhiti, (4) Ākhyāta-vāda, (5) Jñāna-vāda, (6) Padārtha-khaṇḍana, (7) Dravya-kiraṇāvalī-prakāśa-dīdhiti, (8) Guṇa-kiraṇāvalī-prakāśa-dīdhiti, (9) Ātma-tattva-viveka-dīdhiti, (10) Nyāya-lilāvati-prakāśa-dīdhiti and (11) Malimlucha-viveka. According to Mahādeva Āchāryasinha, the son of Vishṇu Paṇḍit, the early teacher of Chaitanyadeva and writer of a commentary on the Sanskrit play Mālatīmādhava, Śiromaṇi along with other scholars of Navadwip received the patronage of Majlis Barbak, the administrator of Navadwip area, during the reign of Sultan Alauddin Husain Shah of Gauda-Lakhnauti.

Another great teacher of Navadwip school of Navya-nyāya was Jānakīnāth Bhaṭṭāchārya-chuḍāmaṇi, a younger contemporary of Vāsudeva Sārvabhauma and an elder contemporary of Raghunāth Śiromaṇi. Among his works mention may be made of (a) Nyāya-siddhānta-mañjarī, (b) Maṇi-marīchi, (c) Tātparya-dīpikā and (d) Ānvīkshiki-tattva-vivarana.

¹ Ibid., pp. 79-101.

Kanāda Tarkavāgīś, a pupil of Jānakīnāth Bhaṭṭacharya, was an elder contemporary of Raghunāth Śiromaṇi. It is presumed that he began his studies in Navya-nyāya logic with Vāsudeva Sārvabhauma, but later, on Vāsudeva's departure for Puri, transferred himself to Jānakīnāth Bhaṭṭāchārya-chuḍāmaṇi. To this day only two books by Kanāda have been found, namely, Bhāshā-ratna and Tattva-chintāmaṇi-ṭīkā.

Haridās Nyāyālankār Bhaṭṭacharya, the earliest commentator on Siromaṇi's dīdhiti philosophy, was contemporary of Siromaṇi and a student-turned-critic of Vāsudeva Sārvabhauma. Haridās had probably written his commentary around A.D. 1525. Kṛishṇadās Sārvabhauma, another important logician of Navadwip was born in circa A.D. 1500 and probably wrote his last book around A.D. 1550. He also wrote commentaries on Siromaṇi's dīdhiti philosophy. Among his works mention should be made of Pratyaksha-dīdhiti-prasāriṇī, Anumāna-dīdhiti-prasāriṇī, Ākhyāta-dīdhiti-prasāriṇī, Jīnāna-vāda-tippanī, Guṇa-dīdhiti-ṭīkā, Anumana-loka-prasāriṇī and two volumes of Bhāshā-parichchheda-muktā-valī.

Rāmabhadra Sārvabhauma, from whom the logicians of Navadwip like Mathurānāth Tarkavāgīš, Jagadīš Tarkālankār, Gaurīkānta Sārvabhauma and Jayrām Nyāyapanchānan of Vārāṇasī had their lessons in Nyāya and Tārkašāstra, had written the following works: Nyāya-rahasya, a commentary on Gautama-sūtra, Guṇa-rahasya, Siddhānta-sāra, Samaya-rahasya, Samāsa-vāda, Sabda-nityatā-vāda, Suvarṇa-taijastattva-vāda, Padārtha-tattva-vive-chanā-prakāša, a commentary on Siromaṇi's Padāartha-khaṇḍana, Siddhānta-rahasya and Kusumāñjali-kārikā-byākhyā.

Jagadguru Śrīrām Tarkālankār, father of Mahāmahopādhyāya Mathurānāth Tarkavāgīś, was alive in A.D. 1568 when a Vazir named Sheikh Farid was administering Navadwip within Husainabad Pargana with authority from Hazrat Ala Sulaiman Karrani, as is evident from a land-sale deed found from Navdwip.\(^1\) Among the books written by Śrīrām Tarkālankār, only two, namely, \(^1\) Anumāna-dīdhiti-\(^1\)tā and \(^1\)tma-tattva-viveka-dīdhiti-\(^1\)tā have been found.

From Āin-i-Ākhari we get the name of Kāśīnāth Bhaṭṭāchārya Chakravartī, a logician, who migrated from the village Anandanibaria to Navadwip to run a tol there.

Bhavānanda Siddhantavāgīś was perhaps the greatest logician

^{1 &#}x27;Usha', Vol. I, No. 10. Jyaishtha, 1813 Saka (A.D. 1891), pp. 23-24.

of Navadwip in the sixteenth century. Though he had written commentaries on eight of Raghunāth siromaṇi's books, yet he is known for the authorship of only Kāraka-chakra, as it happens to be a text book of Sanskrit grammar. Bhavānanda was born around the year A.D. 1514 and possibly wrote his works between 1540 and 1600. He possibly had his lessons in Navya-nyāya from Kṛishṇadās Sārvabhauma. Among his direct students, Rāghabendra Satābadhāna Bhaṭṭācharya of Guptipara in Hugli and Debīdas Vidyābhushaṇ of Pātuli attained fame as logicians. Bhavānanda's grandson was the famous paṇḍit Rudra Tarkavāgīś.

Rudra Tarkavāgīś had his lessons in Nyāya from his elder brother Madhusūdan Vāchaspati. Among his works mention should be made of Sāmānya-lakshmaṇa-dīdhiti-roudrī-ṭīkā, and Siddhānta-muktāvalī-roudrī-ṭīkā. According to some modern scholars, Rudra Tarkavāgīś did not belong to Navadwip proper, but this seems to be an erroneous assumption. Another commentator of śiromaṇi's dīdhiti philosophy was Guṇānanda Vidyavāgīś, a contemporary of Rudra Tarkavāgīś. But Guṇānanda did not belong to Navadwip proper, nor did he have his ṭôl in Navadwip, although he might have had his education in Navadwip. He hailed from the village Gāṅguriā, some 7 miles to the north of Kanchrapara on the road from Calcutta to Baharampur (within Nadia district). Guṇānanda lived and worked during the second half of the 16th century.

The greatest logician to teach and work in Navadwip after Raghunāth Siromaņi was Mahāmahopādhyāya Mathurānāth Tarkavāgīś. Mathurānāth was a son of Śrīrām Tarkālankār already referred to. Mathurānāth had his training in Navya-nyāya either from Krishnadās Sārvabhauma or from Rāmbhadra, more probably from the latter, since Rāmbhadra did not subscribe to the views of didhiti school of siromani like Mathuranath and unlike Krishnadas. The upper limit of Mathuranath's rise to fame as a scholar might not have extended to a period later than circa A.D. 1550. Among his works mention should be made of Tattva-chintămani-rahasva, a commentary on Ganges Maho-Tattva-chintāmani, in three volumes. pādhyāya's Pratyaksha-khanda, Anumāna-khanda and Sabda-khanda, Gunadīdhiti-māthurī, Bauddhādhikāra-dīdhiti-māthurī, Lilāvati-dīdhitimāthurī, Bauddhādhikāra-vivriti, Lilāvati-māthurī, Dravyaprakāśatīkā, Guna-prakāśa-vivriti, Lilāvati-prakāśa-tīka, Gautama-sūtravritti. Supšaktivāva and his magnum opus Siddhānta-rahasya. Besides these books pertaining to logic of the Navya-nyāya school,

Mathurānāth had written one book on *smṛiti* or law, by the name of Pāṇi-grahaṇādi-viveka.

Jagadīś Tarkālankār, grandson of the brother of Vishnupriyā Devī, the second wife of Chaitanyadeva, happens to have been the best known commentator on the Anumāna-khaṇḍa of Raghunāth Śiromaṇi's dīdhiti. Jagadīś Tarkālankār was a younger contemporary of Mathurānāth and was born probably between A.D. 1540 and 1550. Like Mathurānāth, he too was a pupil of Rāmbhadra Sārvabhauma. He probably established his fame as a scholar between A.D. 1540 and 1600.

Jagadīś Tarkālankār had a younger contemporary by the name of Jagadīś Panchānan in Nadia. When Navadwip was a citadel of the logicians of the Navya-nyāya school, Jagadīś Panchānan flourished there as a Smārta or a scholar of smṛiti or law. He had written commentaries on Śrāddha-viveka and Kāvya-prakāśa among others.

Among other eminent teachers and logicians of the Navadwip school of Navya-nyāya, mention should be made of Gopīkānta Nyāyālankār of the early part of the 17th century and Govinda Bhaṭṭāchārya Chakravartī, author of Samāsa-tattva of the same time.

Gadādhar Bhaṭṭāchārya Chakravartī, a pupil of Harirām Tarkavāgīś, was perhaps the last important commentator of Anumānadīdhiti of Śiromaṇi, belonging to the same school. Gadādhar was born in December 1604 and died in February 1709, that is, he lived for more than a hundred years. Apart from his commentaries on Nyāya, he had written a law book (smṛiti) called Rig-Vedokta Daśakarma-paddhati and a commentary on Kāvya-prakāśa. Rāghab Roy, the Rājā of Krishnanagar, made a gift of a piece of land in 1661 in recognition of the scholarship of Gadādhar.

Gadādhar's pupil Jayadeva Sānyāl Tarkālankār, although he originally hailed from Vārendrī or North Bengal, settled down in Navadwip after finishing his education there and opened a tol.

Another Varendra Brāhmin — Śrīkrishna Sānyāl Sārvabhauma rose to fame as a logician and teacher in the second and third quarters of the 18th century. His treatise on logic, written in a poetic form, Padānka-dūta-kāvya saw the light of the day in circa A.D. 1723.

Viśvanāth Sānyāl Nyāyālankār flourished in Navadwip as a logician and teacher of logic around the middle of the 18th century. In A.D. 1753, Viśvanāth, along with seventeen other

paṇḍits of Navadwip, was present at the dvijāchār-upanayana ceremony of Rājā Rājballabh. Viśvanāth was a recipient of land gift made by Mahārājā Krishnachandra of Nadia.

A contemporary of Viśvanāth was Paṇḍit Śivarām Vāchaspati of Gautama-sūtra-vṛitti and Gadādharasya Muktivāda-ṭīkā fame. He too was present at the dvijāchār-upanayana ceremony of Rājā Rājballabh. Though primarily a logician, he had proficiency in all the six principal systems of Indian philosophy.

A younger contemporary of Viśvanāth and Śivarām was Rādhāmohan Vidyā-vāchaspati Gosvāmī, who had his tol not in Navadwip but in Shantipur. Rādhāmohan was born sometime between A.D. 1730 and 1740. He had his training in smṛiti or law from Gopāl Nyāyālankār of Jorabari; we do not, however, know the name of his preceptor in smṛiti. He was a devout Vaishṇava. He had written several books on Vaishṇava theology, smṛiti or law and Navya-nyāya. His approach to smṛiti bore a stamp of his scholarship in Navya-nyāya and it is, therefore, known as Navya-smṛiti.

The last great pandit of Navya-nyāya in Navadwip was Sankar Tarkavāgīś, who wrote a commentary called Patrikā on the harder passages of Mathurānāth, Jagadīś and Gadādhar. Sankar was born around circa A.D. 1723. He was one of the eighteen pandits of Navadwip whom Rājā Rājballabh invited to the dvijāchār-upanayana ceremony. During his time, Sankar had the largest tol in Navadwip and he taught for 65 long years. According to one estimate, he once had 300 pupils at a time. Sankar died in A.D. 1816 at the age of 93.

Mādhavchandra Tarkasiddhānta, who flourished in the middle of the 19th century, was perhaps the last mentionable author that the Navadwip school of Navya-nyāya had produced.

The names of pandits so far mentioned do not exhaust the list of pandits who flourished in Navadwip and Shantipur. The list gives the names of some of the more famous scholars, researchers and teachers of Navya-nyāya who had contributed significantly to make Navadwip a famous seat of learning of the early and late medieval times. It does not give the names of pandits in other fields of learning, namely, smriti, etc. It should not also be assumed that the !ols and chatushpāthīs run by the pandits mentioned in the list were the only ones during the lifetime of these pandits, though the ones run by these pandits were the most important ones. Writing in 1822, Rev. Ward of Serampore Mission reported that there were no less than fifty or sixty schools

in Navadwip. In 1864, E. B. Cowell found six tols of smriti and six of Nyāya existing in Navadwip.

The tols not only did not charge any tuition fee from the pupils but took it to be a duty to provide the pupils with food, clothing and lodging during their periods of stay at the school. The paṇḍit of the tol used to sustain the tol and his family on the product of the devottar or brahmottar grant of land he would get from the king or the local $J\bar{a}g\bar{i}rd\bar{a}r$ or Zamindar and from the alms and gifts he would get by being present at the religious ceremonies held by Zamindars and wealthy house-holders.

Tols used to be run on hereditary lines. A scholar son or nephew would inherit the tol of the scholar father or uncle. If there were more than one scholar son or nephew in the family of a scholar, the eldest would inherit the tol and the others would either establish new tols or would assist the brother or the cousin managing the tol or would be scholars without tol. In 1864. Cowell found nine pandits in Navadwip without tols. In the absence of a scholar in the family, a scholar pupil of the scholar guru would inherit the tol. In majority of the cases, the tols were one-teacher institutions. In some cases, however, the senior pupils or scholars in the family assisted the guru in imparting lessons.

Though Navadwip had been the most renowned centre of *smriti* and *Nyāya* studies in eastern India from about the closing decades of the 14th to about the first two decades of the 20th century, it was not the only centre of Sanskrit studies in what is now Nadia district. We have already mentioned something about the *pandits* who had their *tols* elsewhere in the district, of which more will be stated presently. But before we proceed on to a description of other centres of Sanskrit learning, we have to round up our description of *tols* at Navadwip in the 19th and early 20th centuries.

In 1811, Lord Minto, then Governor-General, proposed to establish a Hindu College at Navadwip, considering the importance of the place as a traditional seat of Sanskrit learning. The plan, however, was abandoned in favour of a Sanskrit College in Calcutta.

In July 1816, the Committee of Superintendence reported that there were 46 schools in Navadwip, kept and supported by the most learned and respectable *pandits* of that place. The total number of pupils amounted to about 380; their ages averaging between 25 and 30 years.

In 1818, Mr. Ward of Serampore Mission enumerated 31 schools

of learning in Navadwip, containing in all 747 students. There were 18 tols of nyāya (logic), 11 tols of smṛiti (law), and one each of Kāvya-Alankāra (poetics and rhetoric), Jyotisha (astronomy and astrology) and Byākarana (grammar).

- H. H. Wilson, Member and Secretary to the General Committee of Public Instruction, visited Navadwip in 1824. He saw 25 *!ols* in existence in Navadwip, where between 500 and 600 pupils were studying either $ny\bar{a}ya$ or smriti under different gurus.
- E. B. Cowell in his Report on the Sanskrit Tols of Nadia of 1864 reported to have found 12 lols in Navadwip, 6 of which were specializing in nyāya and six in smṛiti. Altogether about 150 pupils were being imparted lessons by 8 paṇḍits of nyāya and six paṇḍits of smṛiti. There were nine very eminent paṇḍits, two versed in smṛiti and seven in nyāya at Navadwip at that time, who had no tols.

As has already been pointed out that though Navadwip had been the oldest and most renowned seat of learning of Bengal, it was not the only seat of Sanskritic studies in Nadia district. There had been other seats of Sanskritic studies in the district. Shantipur had been one such seat of learning. We have practically no information about the early days of Shantipur Vidyāsamāj excepting the fact that Advaitacharya, the spiritual preceptor of Chaitanya, flourished here in the latter part of the 15th century. We get a connected account of Shantipur Vidyāsamāj only from the end of the 17th century when Raja Ramakrishna of Nadia granted Sivarām Chakravartī's son Rājendra Vidyāvāgīś a piece of land in A.D. 1692 or 1693 and again another in A.D. 1701 or 1702 towards meeting the expenses of his tol. Rajendra's son Harideva, great-great grandsons Sivacharan Vidyavachaspati and Rādhācharan Nyāyapañchānan earned their fames as logicians and gurus. Between the 17th and the 20th centuries, the Sarvanandi, Ballabhi, Napadi, Chaital, Sobhākar and Kāshyap-Bhaṭṭāchārya Brahmin families of Shantipur had produced a few hundred scholars and gurus, among whom mention should be made of Rāmasundar Nyāyavāchaspati, Rādhāmohan Gosvamī Bhattāchārya, Tārinīcharan Tarkaratna, Kālidās Vidyāvāgīś, Rāmakrishna Siromani, Kālidās Tarkasiddhānta, Baikunthanāth Nyāvaratna, Bhuvanmohan Tarkālankār and Ānandachandra Vidyāratna.

Ulā-Birnagar was another important seat of Sanskritic studies, specially of *smriti* and $ny\bar{a}ya$. Over one hundred names of scholars and *gurus* belonging to Ulā-Birnagar Vidyāsamāj are available in different documents of the Nadia Raj. This Vidyāsamāj came to

an end by the upheaval and famine of 1857. The most famous among the pandits of Ulā-Birnagar Vidyāsamāj was Krishņarām Nyāyapañchānan, a contemporary of Rājā Krishņachandra of Nadia.

Belpukuriā was another important Vidyāsamāj. There were two lineages in Belpukuriā, one specializing mainly in $ny\bar{a}ya$ and another in *smṛiti*. We get the names of about sixty *paṇḍits* with scholarly titles in these two lineages from about the middle of the 17th century to about the beginning of the 20th century.

Kamalpur, to the east of Chakdaha railway station, had once been a famous seat of Sanskritic studies. The number of scholars that the two lineages of this place between them have produced is remarkable. The list of only the more famous ones among them who flourished between the 17th and the early part of the 20th centuries would run into a few pages.

Kumārhaṭṭa-Hālisahar (now in 24-Parganas district) was another famous seat of $ny\bar{a}ya$ and smriti studies. At the middle of the last century, there had been four $chatushp\bar{a}th\bar{\iota}s$ at this place. The Kumārhaṭṭa-Hālisahar Vidyāsamāj used to be sustained by the Rājās of Nadia and Sāvarṇa-Chaudhuris of Calcutta.

Due to social, economic and political changes of the late 18th and early 19th centuries, tols and chatushpāṭhīs as well as mādrāsāhs and maktabs imparting Muslim theological education and teaching Arabic and Persian, of which we have practically no information in so far as Nadia district is concerned, were slowly fading out. Decay of old Zamindar families and landed aristocracy who sustained these tols, chatushpāṭhīs, mādrāsāhs and maktabs, replacement of Persian by English as the language of the courts in 1835, Macaulay's proposals on education of 1835 and Lord William Bentinck's acceptance of those proposals sealed the fate of these traditional institutions of learning.

Apart from the *tols* and *chatushpāṭhīs*, *maktabs* and *mādrāsāhs* there were perhaps some indigenous elementary schools which taught rudiments of reading and writing the vernacular and rudiments of arithmetic and accounting. These schools were relatively open ones and less sectarian than the other types, but information about these schools are scarce.

The beginnings of modern education can be traced back to the efforts of the Christian missionaries after the ban on their activities in the dominions of the East India Company was lifted in 1813. The first recorded visit of Church of England Missionaries to the district occurred in 1822. But the first schools were not

Early days of modern education

opened before 1832, when a Church of England Missionary by the name of Mr. Deerr, then stationed at Kalna in Barddhaman district, went to Krishnanagar and Navadwip. He opened two schools in Navadwip and one in Krishnanagar. For the next few years his and the Church of England's work consisted mainly in the establishment of more schools in the district. The Church Missionary Society started functioning in the district from its headquarters in Krishnanagar in 1841. The school at Krishnanagar established by the Society came into existence in 1843 with free boarding for boys and girls. On 1st October 1845, the Governor General sanctioned the foundation of a college at Krishnanagar in Nadia district. The college was finally opened on 1st January 1846. Its first Principal was D. L. Richardson. Among the earliest teachers of the College were Ramtanu Lahiri and Madan Mohan Tarkalankar. In June 1848. the control of the College was transferred from the local committee to the Council of Education in Calcutta. In 1850, the Church Missionary Society established a school at the mission premises, in existence since 1840. In 1850, 1851 and 1852 some attempts were made to impart craft and industrial training at the school. In 1864, the Church Missionary Society founded the Training or the Normal School at Solo, which was afterwards transferred to Kāpāsdāngā, then to Shantipur and finally to Krishnanagar. In 1885, the Church of England Zenana Mission Society commenced work in the district and by 1891 the Church Missionary Society Girls' School at Krishnanagar was put on a satisfactory basis. The efforts of the Church Missionary Society in the fifties to establish a craft and industrial school became fruitful with the establishment of the Industrial School at Chapra. Such was the beginning of modern education in the district.

According to the Census of 1971, out of a total of 22,30,270 persons, 6,98,341 persons could read and write a simple letter in the script of their mother tongue. In other words, 31.31 per cent of the total population was found to be literate. Of 11,44,977 males, 4,42,117 persons or 39.28 per cent of the total male population was found to be literate and 2,56,224 females out of a total of 10,85,293 females or 22.92 per cent of the female population was literate. In so far as the extent of literacy is concerned, Nadia comes after Calcutta, Howrah, Hugli, 24-Parganas, Barddhaman, Darjiling and Medinipur districts, in that order. Since 33.05 per cent of the total population of West Bengal in

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1971 was found to be literate, the district average falling below that could be taken to be an index of backwardness. But as far as literacy among the female population was concerned, the district average was somewhat better than the West Bengal average of 22.08 per cent.

In the Census of 1961, out of a total population of 17,13,324 persons, 4,66,796 persons or 27.25 per cent of the population were found literate. 3,14,703 out of a total of 8,79,430 male persons or 35.78 per cent of the male population and 1,52,093 out of total of 8,33,894 female persons or 18.24 per cent of female population were found literate in Nadia ditrict. Between 1951 and 1961, the growth of literacy was appreciable but the same rate of growth could not be maintained between 1961 and 1971.

At the Census of 1951, only 15.31 per cent of the total population of Nadia was found literate as against the all West Bengal average of 21.5 per cent. At the beginning of the century in 1901 only 12.08 per cent of the total district population was literate. Female literacy then was negligible. The progress in growth of literacy till 1931 was not only imperceptible but there were actual declines in the percentage of literates in the total population between 1901 and 1911 and between 1921 and 1931. Males having had the major share in the literate section of the population showed these declines in the growth of literacy. Percentage of female literates, however, maintained a steady rate of growth. In 1931, the percentage of literates in the total district population stood at 12.49; from there in a decade it rose to 20.32 per cent of total population in 1941. The increase had indeed been very sharp. The increase was particularly noticeable among the female population; in 1931, only 4.74 per cent of the total female population was literate, but in 1941, 9.83 per cent of the total female population was found literate.

The table given below shows the percentage of literates in total population, as well as the percentage of literate males and females in male and female population respectively, as found in different Census enumerations since 1901.

Percentage of literates

Year	Persons	Males	Females
1901	12.08	22.43	1.87
1911	11.72	20.55	2.85

(Contd.)			
1921	13.54	22.35	4.31
1931	12.49	19.85	4.74
1941	20.32	30.24	9.83
1951	15.31	18.16	12.23
1961	27.25	35.78	18.24
1971	31.31	39.28	22.92

One aspect of the situation, as indicated by the table is worth noticing. Though the percentage of literates among the male population is considerably higher than the percentage of literates among the female population, and as such the fluctuation in the percentage of literates among male population registers its impact on the fluctuations of percentage of literates in the total population more visibly, the rate of growth of literacy amongst the female population had always been higher and steady, as a result of which the gap between the percentage of literates amongst males and females is narrowing.

A larger gap has always existed between the percentage of literates in population in rural and in urban areas of the district. That gap, instead of closing, is actually widening with every Census. The table below gives the percentage of literates in total population as well as the percentage of literate males and females in male and female populations respectively in rural and urban areas separately for the years 1951 and 1961.

सत्यमेव जयते

	Rural/ Urban	Percentage of literates			
Year		Persons	Males	Females	
1951	Rural	12.41	16.06	8.76	
	Urban	28.17	28.03	28.31	
1961	Rural	21.64	29.97	12.89	
	Urban	52.10	61.33	42.20	

One aspect of the situation is worth our attention. While in the rural areas in 1951 percentage of female literates in the female population was half the percentage of literates in male population, in the urban areas percentagewise a slightly larger number of females were available than males. But between 1951

and 1961, the growth of literacy amongst urban males far outstripped the growth of it amongst urban women. The growth of literacy amongst rural women was even slower.

Among the towns of the district - Kalyani, the planned township with a University - showed the highest incidence of literates amongst the male population in 1961. There 69.85 per cent of the male population was found literate. Ranaghat, Chakdaha, Krishnanagar and Navadwip towns showed the male literacy above the district average; 64.01 per cent of the males of Ranaghat town, 64.30 per cent of males of Chakdaha town, 61.39 per cent males of Krishnanagar town and 63.68 of the males of Navadwip town were literate. Lowest percentage of male literacy (52.54 per cent of males) was available in Shantipur town. Krishnanagar having 47.50 per cent of its female population, Ranaghat having 45.26 per cent of its female population and Navadwip having 42.69 per cent of its females as literates registered better averages in so far as literacy amongst the females of the urban areas of the district was concerned. In this respect also Shantipur town was the most backward having 33.05 per cent of its female population as literate.

Among the rural areas of the district Ranaghat police station area had the highest incidence of literates in 1961. 30.44 persons, out of 100, were found literate in the villages of Ranaghat police station area. These villages also had the highest incidence of female literates. 19.75 per cent of the female population and 40.67 per cent of the male population of the rural areas within the jurisdiction of Ranaghat police station were literates. The rural areas of Chakdaha police station come next with 26.82 per cent comprising literates. 16.42 per cent of the females and 36.36 per cent of the males living in the rural areas of Chakdaha police station were found literate. The rural areas of Krishnaganj police station had 25.22 per cent of its total population. 16.02 per cent of its female population and 33.86 per cent of its male population as literates. Lowest incidences of literacy were obtainable in the rural areas of Chapra and Karimpur police stations. 14.23 and 14.75 per cent of the total populations of these police stations respectively were literates. Incidence of female literacy was also lowest in these two police stations. The following table shows the percentage of literates in total population and among the males and females separately in the rural and urban areas of the two subdivisions as the situation was obtainable in March 1961.

Percentage	of	literates
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Subdivision		Persons	Males	Females
Sadar	Total	23.67	31.20	15.79
(Krishnanagar)	Rural	18.65	25.97	11.02
,	Urban	54.07	62.54	45.03
	Total	32.40	42.33	21.81
Ranaghat	Rural	26.53	36.45	15.99
-	Urban	50.46	60.32	39.84

As can be deduced from the preceding table, Ranaghat subdivision is more advanced in so far as the incidence of literacy among the males and females of the rural areas are concerned. But Sadar (Krishnanagar) subdivision has a slight edge over Ranaghat in so far as incidence of literacy among the urban people is concerned. But this slight edge does not upset the overall picture.

In 1951, only 14.27 per cent of children in the age-group of 5-14 was found literate; in 1961, the corresponding percentage was 28.57. The following table gives an age-groupwise break-up of percentage of literates among urban and rural males and females separately for 1961.

A	Ri	ıral	Ur	ban
Age-group (years)	Male	Female	Male	Female
5-14	28.3	18.3	56.0	47.1
15-34	43.7	18.6	79.3	62.1
35-59	32.8	10.4	73.6	39.2
60+	34.4	5.1	72.4	23.5

According to the 1961 Census, 11.68 per cent of the male and 4.17 per cent of the female population of the rural areas of Nadia district had education up to the Primary or Junior Basic level. In the urban areas of the district, 26.78 per cent of the males and 15.97 per cent of females had the same level of education. The total number of persons (males and females separately) having education up to the Primary or Junior Basic in the dis-

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trict as a whole, and in urban and rural areas separately, in 1961 was as follows.

NO. OF PERSONS HAVING EDUCATION UP TO PRIMARY OR JUNIOR BASIC LEVEL: 1961

	Males $\binom{\alpha'}{0}$ of males)	Females (% of females)
District as a whole	1,27,319 (19.23%)	52,741 (10.71%)
Rural areas only	83,629 (11.68%)	28,441 (4.17%)
Urban areas only	43,690 (26.78%)	24,300 (15.97%)

According to W. W. Hunter, there were 229 Primary schools, including pāļhśālās, in the district in 1871-72, and a total of 4,836 pupils were attending those schools in that year. In 1898-99, there were 615 Lower Primary and 85 Upper Primary schools in the district which were being attended by a total of 20,824 students. In Bengal District Gazetteers: Nadia of 1910, J. H. E. Garrett reported 706 Lower Primary and 123 Upper Primary schools in the district, being attended by a total of 31,235 pupils, of whom 5,118 pupils were studying in the primary sections of the Middle and High schools. Among these Primary schools 152 were meant exclusively for girls. Some girls, however, did attend boys' schools. A total of 3,983 girls were there in the Primary schools meant for girls and 589 were enlisted as students in boys' schools. There were two Model Primary schools for girls, one at Shantipur and the other at Navadwip. In 1945-46, there were altogether 1,249 Primary schools attended by 62,445 pupils. The partition of the country in 1947 left the district with half the former population and area in India and had 760 Primary schools attended by some 60,903 pupils. Of the existing Primary schools of 1950-51, 64 institutions, comprising 8,227 pupils, were under Government management; 638 institutions, comprising 47,859 pupils were either managed by the municipalities or by the District School Board; 58 institutions, comprising 4,817 pupils, were privately managed organizations receiving financial aid from Government or Local Self-governing organizations. There were 48 more Primary schools in the district in 1951. These were but Primary sections attached to the Middle English and High English schools and a total of 12,271 pupils were on the rolls of these Primary sections of the Middle English and High English schools.

After the Independence of the country, reorganization of the system of education was being done slowly phase by phase. Some of these affected the structure of Primary education as well. While the old type of Primary schools was retained, a new type of Primary education through the medium of Junior Basic schools was introduced. The following table, prepared from the data provided by the Planning and Statistics Cell of the Directorate of Public Instruction, West Bengal gives the relevant information in quantitative terms about Primary education in Nadia district in 1955-56, 1960-61 and 1965-66.

STATISTICS ON PRIMARY EDUCATION IN NADIA DISTRICT: 1955-66

		1955-56	1960-61	1965-66
1.	Primary Schools:			
	Total no. of institutions	1,185	1,312	1,626
	Government managed	2543.		
	institutions	123	125	109
	Privately managed			
	institutions aided by	34 <i>61</i>		
	Government	66	71	87
	Privately managed	707		
	institutions aided by	A SHARLING		
	Local Self-government	996	1,116	1,430
	No. of boys enrolled	80,358	85,819	1,12,467
	No. of girls enrolled	55,338	58,310	77,245
	Total Government	1 -1 -1 -1		
	expediture (Rs.)	28,61,435	37,14,600	61,61,915
2.	Junior Basic Schools:			
	Total no. of institutions	51	81	92
	Government managed			
	institutions	nil	nil	nil
	Privately managed			
	institutions aided by			
	Government	nil	2	6
	Privately managed			
	institutions aided by			
	Local Self-government	51	79	86
	Total no. of boys enrolled	3,550	5,278	8,308
	Total no. of girls enrolled	2,279	3,670	5,838
	Total Government			
	expenditure (Rs.)	1,76,968	2,24,509	3,01,436

Secondary education

Junior Secondary education From the early days of modern education in Bengal, Secondary education is imparted through a two-stage system. While the High English schools of pre-Independence period, X-class High schools of post-Independence period, XI-class High schools of the preceding times and the X and X+II class systems of the present times necessarily institutionalize both the stages of Secondary education, the Middle English schools of the pre-Independence era, Middle schools of immediate post-Independence days and present day Junior High schools and Senior Basic schools institutionalize only the first stage of Secondary education.

According to Hunter, in 1871-72, there were altogether 69 Middle schools in Nadia district, attended by a total of 3,526 pupils. Of these institutions, 38 were Middle English schools and 31 were Middle Vernacular schools. 4 of these institutions, all Middle Vernacular schools, were under Government management, 53 were privately managed institutions receiving grants-in-aid from Government (30 were Middle English and 23 were Middle Vernacular institutions). 8 privately managed Middle English and 4 privately managed Middle Vernacular schools did not have any grants-in-aid. Only 4 of the privately managed schools were under the management of the European Christian missionaries.

In 1945-46, there were 83 Middle English schools in the district having a roll strength of 3,407 pupils. The partition of the district, along with the country in 1947, left the district with less than half the number of schools of this category. After the Independence of the country when more and more of the institutions of this category began to be upgraded into High schools and from the time when opening of new Middle schools began to be discouraged, the number of these schools began to decrease and with it decreased the number of pupils attending these schools. In 1950-51, there were only 35 Middle English schools in the district, having a roll strength of 60,903 pupils; 25 of these schools were privately managed institutions receiving grantsin-aid from Government or from the Local Self-governing Organizations and 10 were privately managed unaided institutions. After the Independence, some changes were introduced in the structure of institutional education; one of these changes related to the replacement of Middle English schools by Junior High schools. Especially, after the introduction of XI-class multi-

¹ W. W. Hunter, Statistical Account of Bengal, Vol. II, London, 1875, pp. 124-25.

stream Higher Secondary schools, the number of institutions began to grow and with it the number of pupils. Another significant innovation was also made at this time. In accordance with Gandhiji's scheme of Basic Education, as adopted by the Directorate of Public Instruction, West Bengal, a new type of schools styled as Senior Basic schools were set up to cater to the needs of Junior Secondary education coupled with practical training in socially necessary avocations. The following table, prepared from the data supplied by the Statistical Cell of the Directorate of Education, West Bengal gives the information regarding Junior Secondary education, in quantitative terms, in Nadia district for the years 1955-56, 1960-61 and 1965-66.

STATISTICS ON JUNIOR SECONDARY EDUCATION IN NADIA: 1955-66

C. C	1955-56	1960-61	1965-66
High Schools:	25		
institutions for boys	67	89	81
institutions for girls	% H	24	20
institutions managed	99		
lovernment	nil	nil	nil
institutions privately	ł		
ged, aided by Government	42	75	82
privately managed	277		
led institutions	36	38	19
boys enrolled	5,665		6,142
girls enrolled	1.860	3,861	5,510
Jovernment			
nditure (Rs.)	1,21,088	2,74,644	3,32.718
Basic Schools:			
institutions for boys	4	6	
institutions for girls	nil	nil	
Government			
ged schools	nil	nil	
privately managed			
rnment aided schools	4	6	
privately managed			
ed schools	nil	nil	
boys enrolled	227	381	
girls enrolled	15	107	
Government			
diture (Rs.)	21,267	62,035	
	institutions for boys institutions for girls institutions managed dovernment institutions privately iged, aided by Government privately managed led institutions boys enrolled girls enrolled Government inditure (Rs.) Basic Schools: institutions for boys institutions for girls Government ged schools privately managed rnment aided schools privately managed ed schools boys enrolled girls enrolled Government	High Schools: institutions for boys institutions for girls institutions managed fovernment institutions privately ged, aided by Government privately managed led institutions boys enrolled Government diture (Rs.) Basic Schools: institutions for boys institutions for girls Government ged schools privately managed rnment aided schools privately managed ed schools privately managed rnment aided schools privately managed ed schools privately managed forment ged schools privately managed forment aided schools privately managed forment aided schools privately managed forment ged schools forment former	High Schools: institutions for boys institutions for girls institutions managed fovernment institutions privately ged, aided by Government ged, aided by Government boys enrolled girls enrolled Government diture (Rs.) Basic Schools: institutions for boys institutions for girls Government ged schools privately managed rnment aided schools privately managed rnment aided schools privately managed rnment aided schools girls enrolled government ged schools privately managed rnment aided schools privately managed led schools girls enrolled government

Final Secondary Education Government English School, Krishnanagar or Krishnanagar Collegiate School or Nadia Zillah School, as it was then called, happens to be the first High English school of the district. This school was established in 1846. After the establishment of the University of Calcutta in 1857, this school got affiliated to the University.

According to W. W. Hunter, in 1871-72 there were altogether 15 High schools in Nadia district, being attended by a total of 1,903 pupils. Of these High schools 1 was managed by Government directly, 10 were under private management but were receiving grants-in-aid from Government, and 4 were privately managed unaided institutions. Only one school among the 15 was run by the Christian missionaries.

But there are schools in Nadia district which were established before Krishnanagar Collegiate School. St. John's Cathedral Mission School, Krishnanagar, was established in 1834 and Hatchapra King Edward School was established in 1841, but these schools were raised to the level of High school in 1901 and 1948 respectively long after Krishnanagar Collegiate School became a High school.

A list of schools in Nadia district established in the 19th century is given below.

SCHOOLS IN NADIA DISTRICT ESTABLISHED IN THE 19TH CENTURY

	सत्यमेव जय	ते	Year of
	Name and address	Year of	becoming
	of the school	establishment	High school
1.	St. John's C.M.S. School,		
	Krishnanagar	1834	1901
2.	Hātchāprā King Edward School,		
	Vill. & P.S. Chapra	1841	1948
3.	Krishnanagar Collegiate School,		
	Krishnanagar	1846	1846
4.	Lākhuriā High School,		
	Vill. & P.S. Kaliganj	1848	1950
5.	Krishnanagar A. V. High School	l,	
	Krishnanagar	1849	1863
6.	Ranaghat Pal Chowdhury		
	High School, Ranaghat	1853	N. A.

N.A.-Not available.

7 .	Shantipur Municipal High School,		
	Shantipur	1856	1861
8.	Muragachha High School,		
	Vill. Muragachha, P.S. Nakasipara	1864	1869
9.	,		
	Vill. Majdia, P.S. Krishnaganj	1868	1891
10.	Tārāsundari Girls' High School,		
	Navadwip	1870	1950
11.	Sutrāgarh N. M. High School,		
	Shantipur	1872	1901
12.	Navadwip Hindu School,		
	Navadwip	1873	N. A.
13.	Sudhākarpur High School,		
	Vill. Kāsiādāngā, P.S. Nakasipara	1886	1888
14.	Navadwip Bakultala High School,		
	Navadwip	1875	1924
15.	Belpukur High School,		- ~~ ~
	Vill. Belpukur, P.S. Krishnanagar	1895	1895
16.	Shantipur Oriental Academy,		
	Shantipur	1896	1902
17.	The Palashi High School,		
	Vill. Palashi, P.S. Kaliganj	1897	1942
18.	Mr. 2 - 1		
	Vill. Jamserpur, P.S. Karimpur	1899	1900
19.			
	Vill. Bāruipārā, P.S. Karimpur	1900	1916
20.	Kutipārā Rural High School,	1000	1011
	Vill. Pätharghātā, P.S. Tehatta	1900	1944
21.	•	****	40.45
	Vill. Aranghata, P.S. Ranaghat	1900	1948

In 1945, there were 50 High English schools in the then undivided district of Nadia, and altogether 15,415 boys and girls were on the rolls of these schools. The number of institutions rose to 51 just before the partition of the country. The partition left Nadia district in West Bengal with 39 schools and 14,035 pupils in 1947-48. In 1950-51, the number of High schools in Nadia district rose to a total of 56. A total of 15,376 boys and girls were found on the rolls of these 56 schools that year.

N.A.-Not available.

Of these 56 schools, 2 were under Government management, 34 were privately managed institutions receiving grants-in-aid from Government and/or Local Self-governing agencies, and 20 were privately managed unaided schools.

The number of the old type X-class High schools rose to 73 (having a total strength of 29,992 pupils) in 1955-56, the year before the introduction of the new type XI-class multi-stream Higher Secondary schools in accordance with the plan of reorganization of Secondary education as suggested by the Mudaliar Commission on Education and adopted by the Government of West Bengal. In 1956-57, when 8 of the old existing X-class High schools were upgraded to the level of XI-class multi-stream Higher Secondary schools, the number of X-class High schools came down to 65. In the first year of existence of the XI-class Higher Secondary schools, 7 new schools were established, which straightway became XI-class Higher Secondary schools. Thereafter the number of XI-class Higher Secondary schools has steadily increased and X-class schools have maintained a steady decline in number except in the years when upgrading from below offset the trend. The following table, prepared from the data supplied by the Planning and Statistics Cell of the Directorate of Education, West Bengal, gives a quantitative picture of the situation in Secondary education in Nadia in 1955-56, 1960-61 and 1965-66.

SITUATION IN SECONDARY (FINAL) EDUCATION IN NADIA DISTRICT: 1955-66

	1955-56	1960-61	1965-66
1. X-class High schools:			
No. of institutions for boys	64	43	55
No. of institutions for girls	9	19	24
No. of institutions managed			
by Government	2	nil	nil
No. of privately managed			
institutions aided by			
Government	-48	47	69
No. of privately managed			
unaided institutions	23	15	10
Total No. of boys enrolled	25,413	17,912	16,589
Total Government			
expenditure (Rs.)	5,65,885	5.20,437	10,38,489

	1955-56	1960-61	1965-66
2. XI-class multi-stream Higher Secondary schools:			
No. of institutions for boys		24	54
No. of institutions for girls		7	15
No. of institutions managed			
by Government		2	2
No. of privately managed			
institutions aided by			
Government		34	67
No. of privately managed			
unaided institutions	nil	nìl	nil
Total No. of boys enrolled	• • •	12,393	29,084
Total No. of girls enrolled	150	3,532	8,802
Total Government	18/16/2a		
expenditure (Rs.)		9,43,827	25,56,411

The Census of 1961 found 29,156 males out of a total of 8,79,430 or 3.31 per cent of the total male population as having education, the minimum of which is Matriculation or School Final or Higher Secondary or Indian School Leaving examinations. The Census of 1961 at the same time found only 3,536 females in a total of 8,33,894 females, or only 0.42 per cent of the total female population of the district had education, the minimum of which was Matriculation or an equivalent examination.

In the rural areas of the district, only 1.69 per cent of the male population and 0.12 per cent of the female population in 1961 were having education, the minimum of which was Matriculation and equivalent examination.

According to the Census of 1961, in the urban areas of the district, 6.21 per cent of the male population was found to have an education equivalent to Matriculation or School Final or Higher Secondary or Indian School Leaving level. Similarly, 1.05 per cent of the urban female population was found to have passed either of the above-mentioned examinations only.

In 1970-71, there were altogether 9 colleges of general education in Arts, Science and Commerce conducting classes up to the degree standard. Together they had a roll strength of 4,619 students. General collegiate Education

Krishnanagar Government College is not only the oldest college in the district but one of the older institutions of its kind in West Bengal. On the 1st October 1845, the Governor General in Council took the decision to establish the college in Krishnanagar, which was finally opened on the 1st January 1846 with D. L. Richardson as the Principal. Rāmtanu Lāhiri and Pandit Madanmohan Tarkalankar were engaged in teaching at the College from the very first year. Government appointed a Local Committee to manage the affairs of the College. But in June 1848, the control of the College was transferred from the Local Committee to the Council of Education of the Government in Calcutta. In 1856, the College went into the new buildings which still stand in Krishnanagar. In 1857, when the University of Calcutta came into existence, the College got affiliated to it as an institution empowered to conduct classes for the First Examination in Arts (later called Intermediate in Arts) and the Bachelor of Arts examinations. In 1871, B.A. classes were abolished by Sir George Campbell, the then Lieutenant Governor of Bengal. In 1875, however, Sir Richard Temple, on the petition of the chief inhabitants of the district, consented to restore the College to the former status, provided that a considerable share of the increased cost was subscribed by the community. This was done and the College started the classes again.

From around 1896-97 to around 1920-21, Krishnanagar Government College had conducted classes in Law and Pleadership for students preparing themselves for the Bachelor of Law and Pleadership certificate examinations.

In 1908-09, the University of Calcutta extended its affiliation to the College to conduct classes for students preparing for Intermediate in Science and Bachelor of Science examinations of the University. The College is at present affiliated to the University of Calcutta for conducting classes for students preparing for the Pre-University Arts, Pre-University Science, B.A. and B.Sc. examinations of the University. Teaching up to the Honours standards in English, Sanskrit, History, Economics, Political Science, Philosophy and Bengali among Arts subjects and Physics, Chemistry and Mathematics among the Science subjects is provided at the college.

The College stands on an enclosed compound of over 34 acres and is spread over two main buildings. The bigger building, constructed in 1856, is used for holding classes and discharging administrative functions and the smaller building houses the

laboratories. The College has a fairly good library with a reading room. Part of the ground occupied was purchased by Government; for the remainder, the College is indebted to the munificence of the Mahārājā of Nadia and Mahārāņī Swarnamayī of Kashimbazar.

For a long time this College had remained the only College of general education in the district, till the establishment of the College in Shantipur.

Shantipur College was established in 1947 and got its first affiliation to the University of Colcutta in 1948-49 for conducting Intermediate in Arts and Intermediate in Secience classes. The College became an institution under the Dispersal scheme of the Government of West Bengal in 1950-51 and later it became a privately managed Government Sponsored College. The College got affiliated to the University of Calcutta in 1955-56 for conducting B.A. and B.Sc. classes and in 1965-66 for conducting B.Com. classes. The College prepares students for appearing at the B.A. (Honours), B.Sc. (Honours) and B.Com. (Honours) examinations. The College is situated on a campus comprising about 16.6 acres of land. It has its own building equipped with laboratories and a library.

Navadwip Vidyasagar College in Navadwip town was established in March 1942 as a branch of Vidyasagar College, Calcutta and had no independent status as an institution till 1948. In 1948, it got its own Governing Body and got affiliated to the University of Calcutta for conducting Intermediate in Arts and Intermediate in Science classes. A morning section meant exclusively for girl students came into existence in 1952-53 and got affiliated to the University for conducting I.A. and I.Sc. classes. In 1956-57, the University extended its affiliation to both the sections of the College to conduct B.A. and B.Sc. classes and in 1964-65 the University accorded affiliation to the day department, empowering it to prepare students for the Bachelor of Commerce examination. The College provides Honours courses in Bengali (B.A.), Sanskrit (B.A.), Mathematics (B.A. & B.Sc.) and Accountancy (B.Com.).

The authorities of the college have secured a long term lease for the lands and buildings of the College. Laboratories are not equipped for Honours courses in Physics and Chemistry. The College has a small library.

Ranaghat College in Ranaghat town was established in 1950 under the Dispersal scheme and as such later came to be regarded

as a privately managed Government Sponsored College. It got affiliated to the University of Calcutta in the same year for conducting I.A. and I.Sc. classes. In 1957-58, affiliation was extended to enable it to prepare students for B.A., in 1961-62 for B.Sc. and in 1969-70 for B.Com. examinations. The College prepares students for degree with Honours examinations in History (B.A.), Sanskrit (B.A.) and Chemistry (B.Sc.). The College is housed in its own buildings and is equipped with laboratories and a library.

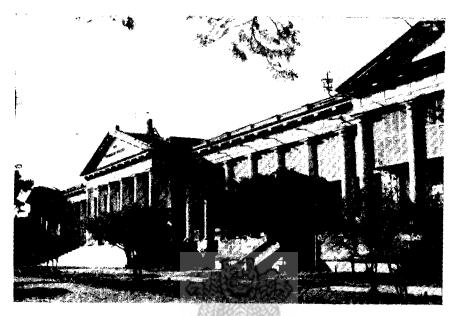
Srikrishna College, Bagula was originally situated in Rāmdiā in Faridpur district, having been established there in 1942-43. It shifted to Bagula in Nadia after the partition and began functioning from its new site in July 1950. It got affiliated to the University of Calcutta in 1952 with powers to prepare pupils for the Intermediate in Arts examination. Subsequently, in 1958-59, it got affiliated to the University for conducting B.A. classes and in 1962-63, it was permitted to prepare students for the B.Com. examination. The College imparts training in Bangali (B.A.), Advanced Accountancy and Auditing, Income Tax and Costing (all B.Com.) up to Honours level.

Krishnanagar Girls' College in Krishnanagar town was established in 1958-59 and was affiliated to the University of Calcutta the same year for Pre-University Arts and B.A. classes. In 1961-62, affiliation was extended to empower the College to prepare students for the Pre-University Science and B.Sc. examinations. The College offers Honours courses in Bengali. Sanskrit, Philosophy and Economics.

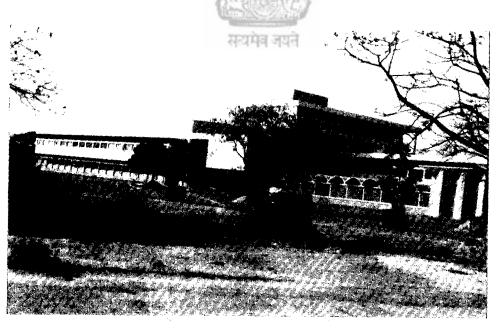
Sudhiranjan Lahiri Mahavidyalaya in Majdia was established in 1966 and was affiliated to the University of Calcutta for Pre-University Arts and B.A. (Pass) courses the same year. B.Com. (Pass) course was introduced in 1970-71.

Karimpur Pānnādevi College in Karimpur came into existence in 1968-69 and was affiliated to the University of Calcutta for P.U. (Arts) and B.A. courses the same year. B. Com (Pass) course was introduced in 1969-70.

Krishnanagar College of Commerce in Krishnanagar town came into being and was affiliated to the University of Calcutta in 1968-69 for preparing students for the P.U. (Arts) and B.Com. (Pass) examinations of the University.



Kríshnanagar College.



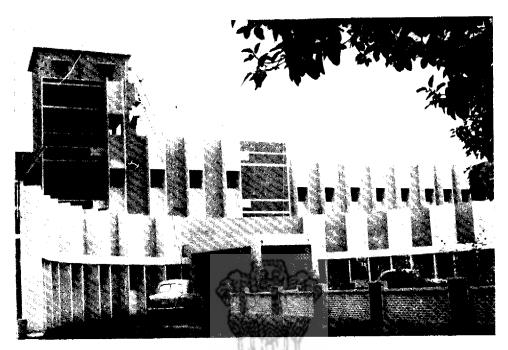
2. Kalyani University.



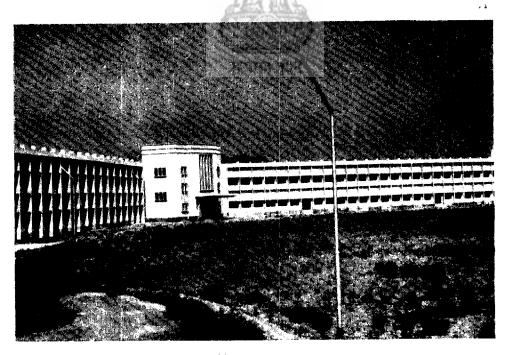
1. Bangiya Puritu Parishad, Shantipur,



2. Shantipur Sahitya Parishad.



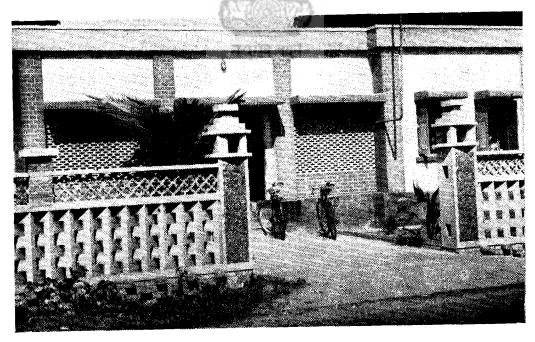
1. Netaji T. B. Hospital (Kanchrapara). Kalyani,



2. Jawaharlal Nehru Memorial Hospital, Kalyani,



1. Kalyani Spinning Mill.



2. Haringhata Anchal Panchāyat Office Building.

TECHNICAL EDUCATION

The first attempts at imparting training in crafts and industries, which can be carried on by individuals or small groups of people with low investments, were made by the Christian missionaries around the years 1850-52. These attempts, however, were abortive. In 1864, the Church Missionary Society founded the Training or the Normal School at Solo which was afterwards shifted to Kāpāsdāngā, then to Shantipur and finally to Krishnanagar. This school had facilities to provide training in several crafts and industries.

The Hatchapra Industrial School within Chapra Police Station was established in 1900 by Revd. G. H. Bradburn of the Church Missionary Society for providing practical instruction to pupils with an object to make them self-employed. Instructions were provided in carpentry, tin-smithy, black-smithy, brasswork and basketmaking.

In 1951, there were altogether 10 institutions for technical training in Nadia district which had a total roll strength of 540 Technical schools were four in number and came under the technical education scheme of Government. Of these, the Bipradas Pal Chaudhuri Technical School at Krishnanagar. imparting training in smithy, carpentry and turnery, etc. was under the management of the Directorate of Industries, West The Phulia Polytechnic in Phulia, imparting training in as many as sixteen crafts and services, was also a Government managed institution. Krishnanagar Mahila Samiti Silpa Vidyalaya, imparting training in handloom weaving, embroidery, lace making, knitting and tailoring to women and the Roman Chatholic Girls' Industrial School, Krishnanagar were privately managed Government aided schools for technical education, granting certificates and diplomas to the students after successful completion of the courses offered.

Apart from the aforementioned technical schools, there were six industrial training centres; excepting two the rest were managed by private bodies, receiving grants-in-aid from the Directorate of Industries, West Bengal. These were Umāśaśī Nārī Silpa Sikshā Mandir at Krishnanagar for girls, Shantipur Weaving School at Shantipur, Silpavānī at Navadwip, Navadwip Kuṭir Silpa Pratishṭhān at Navadwip, Silpa Vidyālaya at Chakdaha and Kuṭir Silpa Sikshā Pratishṭhān at Ranaghat. Two of these institutions are under Government management.

The following table, prepared from the data supplied by the Planning and Statistics cell of the Directorate of Education, West

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Bengal, gives in quantitative terms the situation in technical and industrial training in Nadia district for the years 1955-56, 1960-61 and 1965-66.

SITUATION IN	TECHNICAL	EDUCATION	IN
NADI	A DISTRICT:	1955-66	

	1955-56	1960-6	1 1965-66
No. of technical &			
industrial schools			
(including polytechnics)	14	18	15
No. of Government managed			
institutions	4	2	3
No. of privately managed			
Government aided institutions	10	16	12
Total No. of boys enrolled	609	1,017	1,257
Total No. of girls enrolled	1,213	1,235	1,075
Total Government	53		
expenditure (Rs.)	91,745	2,70,684	4,99,933
CAPALYMAN	1384F-75L-353		

Teachers' training institutions

The first attempts at imparting training to the pupils intending to take up the profession of teaching, were made by the missionaries of the Church Missionary Society at their Training or Normal School which was set up at Solo in 1864 and later was shifted to Kāpāsdāngā and subsequently to Shantipur and finally to Krishnanagar. The Government aided C.M.S. Training School imparted teachership training to male students only from the very beginning. The First Quinquennial Review on the Education in Bengal for 1892-93 to 1896-97 (Calcutta, 1897) points to the existence in 1896-97 of a Roman Catholic Boarding and Training School at Krishnanagar, aided by Government, for training female students in teachership. The Fifth Quinquennial Report for 1912-13 to 1916-17 reports that the Church of England Zanana Mission Training School imparted training to females intending to teach in lower classes. The same source reports about the closure of a Training school at Mollah-balia village in the district which had specialized in training Muallims for madrasahs and pāthśālās. The aforementioned C.M.S. Training School for men at Krishnanagar was closed down in 1932.

In 1951, there were altogether 5 teachers' training institutions, all Government managed, in the district. Four of these were Teachers' Training Schools to train non-graduate students for teachership in Primary schools, the other was a Teachers' Training College for training graduate-students in teachership for Secondary schools. With the coming into being of Kalyani

University, this college became a department of the University. In 1955-56, the aforementioned five institutions for teachers' training were intact and there were altogether 109 students on their rolls. In 1959-60, a new institution came into the field and in 1960-61, there was a further addition of one institution to the hitherto existing six. The seven institutions together had a roll strength of 194 students. These seven included the Teachers' Training College of Kalyani University.

Kalyani University at Kalyani came into existence by the Kalyani University Act, 1960 (West Bengal Act XIII of 1960) of 1st September 1960 and started functioning from 1st November 1960 with the appointment of the first Vice-Chancellor.

Kalyani Universi**ty**

It is basically a Unitary type University, but it has power to recognize, derecognize, affiliate and dis-affiliate any College within the Police Stations of Chakdaha and Haringhata in Nadia district and the Police Station of Bijpur in 24-Parganas district. Pupils can either stay at the residential hostels of the University or commute between home and the University.

The Faculty of Arts which includes both Humanities and Social Sciences came into being in 1961 and comprises the following Departments, namely, Bengali, Engish, Economics, Sociology, History and Political Science. The Faculty offers 3-year Honours degree courses in Economics, English, Bengali and Sociology. 2-year post-graduate courses in Bengali, English, Economics. Sociology, History and Political Science leading to M.A. degrees are offered. The Faculty of Arts provides facilities for research leading to Ph.D. degree. The Departments of the Faculty of Arts are spread out over five buildings situated in the campus of the University at Kalyani. The Departments of the Faculty of Arts utilize the facilities provided by the Departmental libraries and the Central Library.

The Faculty of Education including the Departments of Education and Physical Education are still housed in the building of the Kalyani Teachers' Training College which formed the nucleus of these Departments. The two Departments respectively offer B.T./M.A. (Education) and B.Ed. (Physical Education) degrees. The Departments of Education and Physical Education have their own library and the laboratory which have grown out of the nucleus provided by the library and the laboratory of the erstwhile Teachers' Training College.

The Faculty of Science came into existence in 1962 and comprises the following Departments, namely, Physics, Chemistry, Mathematics, Statistics, Botany and Zoology. The Faculty offers 3-year Honours degree courses in the subjects just mentioned leading to B.Sc. (Honours) degree and 2-year post-graduate course in each of the subjects leading to M.Sc. degree.

There are separate buildings for housing the class rooms, lecture theatres, laboratories, libraries and teachers' rooms for each of the following subjects, namely, Physics, Chemistry, Mathematics and Statistics, Botany and Zoology. Over and above these buildings there is a workshop.

The Central Library of the University is yet to get a house of its own and is at present located in the University Administrative Building. On the 15 November 1977 there were altogether 50,800 volumes in the Library. Average yearly acquisition stands at 3,978 volumes. The Library subscribes 445 journals.

There are two hostels for the female resident students of the University with a capacity to accommodate 80 students at a time. One of these hostels is housed in a rented premise. There are 5 hostels for the male residential students of the University with a capacity for 500 inmates at a time.

Facilities of indoor and outdoor games are available at Kalyani campus. The University is now constructing University Health Centre, Guest House, Central Library etc.

The Faculty of Commerce is going to be started soon.

The Faculty of Agriculture of Kalyani University had its nucleus in the Birla College of Agriculture at Haringhata which became a part of that University as soon as it came into being.

The State Government decided in March 1973 to divide Kalyani University and establish an agricultural University. Accordingly, Bidhan Chandra Krishi Viswa Vidyalaya at Haringhata was established on 1 September 1974 under Bidhan Chandra Krishi Viswa Vidyalaya Act (West Bengal Act XLIX of 1974) by disaffiliating the Faculty of Agriculture from Kalyani University and Bengal Veterinary College, Calcutta from the Calcutta University and simultaneously transferring them as constituent units to the new Viswa Vidyalaya.

It has two Faculties, namely, the Faculty of Agriculture at Kalyani and the Faculty of Veterinary and Animal Sciences located at Belgachia, Calcutta.

BIDHAN CHANDRA KRISHI VISWA VIDYALAYA The Faculty of Agriculture comprises 10¹ and the Faculty of Veterinary and Animal Sciences comprises 9² Departments.

EDUCATION IN FINE ARTS

The following table gives in quantitative terms a picture of the situation in the field of Fine Arts and Music. Most of the institutions in this field are schools imparting training in Music and Dancing. These schools, however, do not follow any standardized course of training, nor does any central institute conduct the passing out examination or give certificates or diplomas after the successful completion of training at these institutions. Yet, many of these schools are recognized by and affiliated to either the West Bengal State Sangīt Nāṭak Akademi or Rabindra Bharati University or Central Sangīt Nāṭak Akademi or to Music College of Lucknow and get grants-in-aid from these and/or the Education Department of the Government of West Bengal and/or from Local Self-governing agencies as shown in the table below.

EDUCATION IN MUSIC & FINE ARTS IN NADIA DISTRICT: 1955-66

6/48	1955-56	1960-61	1965-66
No. of institutions	5	6	10
No. of institutions aided	848		
by the Government	JUL 15	5	8
Total No. of boys enrolled	129	106	155
Total No. of girls enrolled	392	238	422
Total Government	or country		
expenditure (Rs.)	5,320	39,380	20,099

The most important of the institutions in this field is Bangavāṇī of Nidayāghāt, Navadwip. The Bangavāṇī Society was founded in October 1929 and manages a number of educational and cultural institutions in Navadwip. Geetavāṇī is the name of the school for Music and Dance managed by the Bangavāṇī Society. The school offers 4-year certificate and 6-year diploma courses in Vocal Music (Hindusthani Classical, Kīrtana, Rabindra Sangīt and Folk Music of Bengal), Dance (Manipuri, etc.) and Instrumental Music (North Indian Classical and Light Music).

Agronomy, Agricultural Chemistry & Soil Science, Agricultural Economics, Agricultural Statistics, Agricultural Entomology, Agricultural Engineering, Agricultural Extension, Genetics & Plant Breeding, Horticulture and Plant Pathology.

² Animal Husbandry & Dairy Science, Animal Physiology, Anatomy, Pathology & Preventive Veterinary Medicine, Medicine & Pharmacology, Animal Gynaecology & Obstetrics, Surgery, Animal Husbandry and Extension.

A Government-sponsored Music Teachers' Training College functions as a separate Department of Geetavānī. The Department offers a 2-year diploma, with provision for an additional year of specialization, to women. The school maintains a Department for teaching the students who take up Music as a subject for their Higher Secondary Examination.

The Bangavānī Society also runs a school for non-performing Visual Arts. This school, named Rupavānī, offers a 5-year diploma course in Drawing, Painting, Clay Modelling and Commercial Art. Both the schools are housed in the building owned by Bangavānī.

Another important institution in this field is the Hrishīkes Saṅgīt Vidyālaya of Navadwip. The institution was founded in 1944. The institution offers a 4-year junior and a 4-year senior diploma course in Vocal Music (Hindusthani Classical, Rabindra Sangīt, Kīrtana and Folk Music of Bengal), a 3-year junior and a 3-year senior diploma course in Instrumental Music (North Indian Classical, Folk and Light Music). The school is housed in its own building.

PHYSICAL EDUCATION

The Youth Welfare Council, Nadia came into existence in 1939 to render help to organized activities in the fields of sports, games and athletics. One important area of its operation had been the schools and colleges.

The District Officer of Physical Education and Youth Welfare organizes training camps, sends out trained instructors, arranges for sports meets and competitions and forwards grants-in-aid to various clubs and sports organizations, etc. through the Nadia District Sports Association, Nadia School Sports Association, Nadia District Body Builders' and Weight Lifters' Association, District Commissioner for Bharat Scouts and Guides and Nadia Referees' Association.

SOCIAL EDUCATION

The district first came into the Social Education Scheme of the Government of West Bengal in 1950, when Social Education Centres and Adult Education Centres were set up in different villages to spread literacy among the adult illiterates and disseminate such useful information to them as would make them responsible citizens of the country. The Centres also try to couple the education with wholesome entertainment.

After the introduction of the Social Education Scheme, a majority of libraries in the district have come under the purview of the scheme.

Following is a list of Public Libraries in Nadia district.

	Name of the Public Library	Thana	No. of books (Approx.)	Date of establish- ment
1.	Krishnanagar Public Library	Kotwali	13,000	1856
2.	Rānāghāt Public Library	Ranaghat	8,000	1884
3.	Chākdaha Basanta Smriti Pāthāgār	Chakdaha	3,500	1919
4.	Sādhanā Library. Krishnanagar	Kotwali	2,000	1923
5.	The Co-operative Library, Krishnanagar	-do-	1,500	1945
6.	- A	-do-	700	_
7.	Ulasi Sādhāran Granthāgār	Hanskhali	550	1956
8.	Chāprā Sādhāran Pāthāgār	Chapra	1,000	1954
9.	Tehatta Milan Sangha Public Library	Tehatta	700	_
10.	Kendoā Vivekānanda Pāthāgār	Nakasipara	1,500	1356 B.S.
11.	Käsiädängä Tarun Päthägär	-do-	1,750	1945
12.	-	Karimpur	1,000	1348 B.S.
13.	Mahishbāthān Lābanya Provā	-do-	750	-
14.	Public Library Mājhergrām Palli- mangal Public	Ranaghat	750	1945
15	Library Udayana Pathachakra	-do-	750	1954
16.	•	Kotwali	2,000	1944
17.	Krishnanagar Adarsa Pāthāgār, Navadwip	Navadwip	2,000	1358 B.S.

	Name of the Public Library	Thana	No. of books (Approx.)	Date of establish- ment
18.	Mrinālinī Smriti Pāthāgār,	Kaliganj	750	1333 B.S .
19.	Pāglāchandi Matiāri Yubak Samity Sādhāran	-do-	2,500	1362 B .S.
20.	Sādhāran Granthāgār,	Krishnaganj	5.250	1345 B.S.
21.	Chittaranjan	Kotwali	1.500	1927
22.	Pāthāgār Bādkullā Rāni Bhawāni Pāthāgār	Hanskhali	3,000	1942
23.	EA	Krishnaganj	800	1933
24	Anil Smriti Pāthāgār	-do-	700	AND THE PERSON NAMED IN COLUMN 1
25.	- Jan	Hanskhali	700	
26.	Akshay Granthägär	Shantipur	3,000	1947
	Chhātra Sangha Public Library	Ranaghat	500	_
28.	Suhrid Sangha Granthāgār	Kotwali	800	1361 B.S.
29.		Shantipur	800	1958
30.		Tehatta	700	1953

In addition, there are, on an average, 4-5 small libraries in each Block. Most of these libraries—the rural libraries, the public libraries and the smaller libraries in the Block areas—are institutional members of District Library, Nadia. The total number of such institutional members (libraries) of the District Library, Nadia, is 112.

The District Library has two main sections—(1) the local section and (2) the mobile section.

There are 112 libraries which are institutional members of the District Library and are fed with books from the District Library, Nadia once a month through a mobile van. The District Library has a complement of about 15,000 volumes at its disposal.

The following are some of the better known and old Rural Libraries in the District.

	Name of Rural		No. of
	Library	Thana	books (Approx.)
1.	Kishori Mohon Public Library	Karimpur	900
2.	Natidāngā Tarun Sangha Pāthāgār	-do-	500
3.	Dharmadā Sevābrati Sangha	Nakasipara	1,000
	Bethuādahari Deshbandhu Smriti Pāthāgār	-do-	2,000
5.	Iswar Gupta Pāthāgār	Chakdaha	2,023
	Madanpur Sādhāran Pāthāgār	-do-	836
7.	Navadwip Sādhāran Granthāgār	Navadwip	21,996
8.	Bāmanpukur Public Library	-do-	863
	Pradyut Smriti Pathagar	Tehatta	933
	Rāmkrishna Pāthāgār	Chapra	2,200
11.	Netaji Club Library	Hanskhali	842
12.	Ānulia Kedār Nāth Smriti Pāthāgār	Ranaghat	931
13.	Ulā Sādhāran Pāthāgār	-do-	2,032
14.	Barajāguli Prajnānānanda Pāthāgār	Haringhata	930
15.	Shantipur Public Library	Shantipur	3,392
	Phulia Community Recreation Centre	Shantipur	400
17.	Ankurikā Granthāgār	Kaliganj	1,825
	Digambarpur Sahid Smriti Päthägär	Krishnaganj	992
19.	_	-do-	2,118
20.	_	. Kotwali	956

MUSEUM

The Krittiväs Memorial Community Hall and Museum at village Phulia within Shantipur police station, commemorating the memory of the poet Krittiväs, the author of the Bengali $R\bar{a}m\bar{a}yana$, established in 1964, is the only museum in the district.

There were 9 permanent and 15 temporary cinema halls in the district in 1965-66.

A list of public halls and auditoria in Nadia district is given in the Appendix.

Shantipur Sahitya Parishad at Shantipur, housed in its own building, has collections of old Bengali manuscripts, a set of old Bengali pañjikās, terracotta plaques, stone images, old books. magazines, etc.



APPENDIX
LIST OF PUBLIC HALLS AND AUDITORIA IN
NADIA DISTRICT

Free or can	be hired	on payment	of rent	Free	Can be hired on	payment of rent	Free	*		£				:	Rs. 35.00 per	night and electric charges	Rs. 35.00 per	and Rs. 10.00 per day for electric charges
Total	accom-	moda-	tion	308	125	,	120	150	150	20		150	ŧ	20	800		906	
		Electrified	or not	Electrified	2	•	Not electrified		1					an e	Electrified	- ·	2	
			Managed by	A committee of the Hall	Rabindra Bhavan	, , , , , , , , , , , , , , , , , , ,	Anchal Fanchayat, Chapra	Anchal Panchayat, Bhìmpur	Anchal Panchayat, Hātisālā	Local Senior	Committee	Local Committee	of the Hall	Tehatta High School	Rabindra Bhavan	Committee, Ranaghat	Shantipur Public	body)
Year	esta-	blish-	ment	1909	1961	1	195/	1957	1958	1957		1962		1958	1962	es es	1912	
		Where	located	Krishnanagar	Krishnanagar	į	Chapra	Bhīmpur	Hātisālā	Natidanga		Anandapalli,	Karimpur	Tehatta	Ranaghat	Town, Bosepara	Shantipur	
	Name of the	Public Hall or	Auditorium	Rāmgopāl Town Hall	Rabindra Bhavan	1	Chapra Village Hall	Bhimpur Village Hall	Hātisālā Village Hall	Natidanga Community Hall	Community ran	Rabindra Bhavan	-	Community Hall	Rabindra Bhavan		Shantipur Public	

CHAPTER XIV

MEDICAL AND PUBLIC HEALTH SERVICES

SURVEY OF PUBLIC HEALTH AND MEDI-CAL FACILITIES IN EARLY TIMES

The earliest reference to diseases in the district is perhaps connected with the life of \$rī Chaitanya. It has been said that Srī Chaitanya suffered from acidity and had epileptic fits at times. The indigenous prescriptions made to cure the disease were that the feet of the patient should be kept tied together, that a kind of ghee (sivāghrita) and cooking oil should be applied to the head of the patient and then he should be bathed, and that the patient should be given the water of green coconut to drink.1 Srī Chaitanya himself is said to have told a Pāthān soldier that he became unconscious at times because of epilepsy.2 We find from the descriptions the indigenous method of treatment of acidity in the medieval days in the district.

The river-fed district with its dry climate in some pockets might have inspired some visitors in the past to call it a health resort. While there was periodic and beneficial flooding of the country in eastern Bengal (Bangladesh) such flooding was no longer to be found in central Bengal including Nadia district.3 Besides. the Ganga had strayed further east degenerating many of its distributaries into stagnant lagoons.4 Several authorities during the late 19th and the early 20th centuries pointed out that Nadia rivers were being silted up and that for want of annual flooding, the conditions of both health and agriculture were deteriorating.⁵ Thus the want of facilities for the "ingress and egress of rain and flood water" combined with the "indiscriminate embanking of vast tracts" in this area for flood prevention and the construction of a net-work of railways and roads caused serious damage to health of the people in the district.6 In the early sixties of the 19th century, an epidemic fever visited the district called the 'Burdwan Fever'. That fever perhaps broke out as a consequence of raising embankments in this region, whether for roads, for railways or for flood prevention.

¹ Brindavana Das, Chaitanya Bhagavata, Madhya Khanda, Chap. II, ślokas

^{99-102 (}Bhakitibilas Tirtha-ed.), Mayapur (Nadia).

Krishnadas Kaviraj, Chaitanya Charitāmrita, Madhya Līlā, Chap. 18.

sloha 174 (Radhagovinda Nath-ed.), Calcutta, 1357 B.S.

C. A. Bentley, Malaria and Agriculture in Bengal, Calcutta, 1925, p. 10.

⁴ Loc. cit.

⁵ *Ibid.*, pp. 15-16. ⁶ *Ibid.*, pp. 19-20.

The Special Committee, appointed in 1863 in this behalf, reported in 1864 that the area first affected by the disease had ceased to be inundated and enriched by flood water from the rivers.1 Dr. Elliot submitted a "Report on Epidemic Remittent and Inter-remittent occurring in parts of Burdwan and Nadia divisions" which was published in 1863.2 His contention was that one of the principal causes of the epidemic was want of cultivation. He suggested that the epidemic appeared first and was most virulent in the oldest and most populous villages, the lands around which had gone out of cultivation. Bentley observed, "while the Fever Committee showed that the fever was associated with relative infertility of the soil owing to lack of inundation, Dr. Elliot commented on the associated lack of cultivation. The one statement corroborates the other, for, as is well known, lack of fertility leads to lack of cultivation."3 Another serious epidemic occurred in the district and continued between 1881 and 1885. The Nadia Fever Commission of 1881 inter alia said that the district was becoming more and more Tanks and other reservoirs of water were drying up before the hot season. Some such fevers were again prevalent in the district in 1902-05 and a Drainage Committee submitted its report in April 1907 regarding such fevers. The Drainage Committee of 1906-07 considered inter alia the insanitary state of the village sides due to thick jungles, existence of a large number of tanks, pits and collection of water and scanty supply of drinking water to be responsible for the spread of disease in the district. The District Board, however, began sinking several tube-wells since 1930. The problem of apprehended spread of diseases due to a heavy influx of displaced persons in the wake of the partition of Bengal in 1947, was satisfactorily tackled by the sinking of tube-wells and by the excavation of dug-well latrines and the making of Septic tank latrines in the colonies and camps sheltering these people. Piped water supply was also introduced in some municipalities.

While registration of births and deaths is compulsory in the municipal areas under the Bengal Municipal Act, 1932, in rural areas the Chowkidars remained the primary reporting authorities since 1892. The Chowkidars bring their note-books, recording VITAL STATISTICS

¹ Ibid., p. 58. ² Loc. cit.

³ Loc. cit.

such events, on the parade day to the Police Station, from where the figures reach the higher authorities.

The Directorate of Health Services, West Bengal, however, classified 7 types of registration units, namely, (i) Registrars of births and deaths in municipal areas, (ii) Sanitary Inspectors, (iii) Medical Officers of Rural Health Centres, (iv) Officers in charge of police stations, (v) Railway Station Masters, (vi) Staff of the Basic Public Health units and (vii) Others.

In spite of all this, it appears that the reporting of vital events through an official registration system as late as 1966 was deficient both in coverage and quality. The Directorate of Health Services suggested that to improve the system of registration, several schemes should be undertaken, namely, Model Health and Ideal Registration Unit, Half-yearly Census of Births and Deaths, Sample Registration Scheme (Pilot) and Model Registration in Primary Health Centre areas.

For the present, we still depend on the Chowkidars as the primary compiler of vital events in rural areas.

The following table shows distribution in percentage of Chowkidari attendance and receipt of returns with their average lag period in months for Nadia district for the years 1965 and 1966.

Table

RECEIPT OF VITAL STATISTICS RETURNS FROM NADIA DISTRICT: 1965-66

Year	Percentage of Chowkidari attendance	Percentage of receipt of returns	Average lag period in months
1965	81.7	83.33	1.30
1966	81.9	81.60	1.20

Model Health and Ideal Registration Unit A 'Model Health and Ideal Registration Unit' project was opened in 1962 in Duttaphuliā union in the district for (1) the maintenance of a continuous population register, estimates of growth of population and health education, (2) complete registration of vital events and recording correct cause of death, (3) primary vaccination to all unprotected persons and re-vaccination of population in every 5 years, (4) determination of the health problems and maximum utilization of the staff of the Health Centres for rendering medical and public health services

Table 2.

BIRTH AND DEATH FIGURES FOR NADIA DISTRICT: 1961-66

		Births			Deaths	
			Rate per			Rate per
			thousand			thousand
	Urban	Rural	(on total)	Urban	Rura!	(on total)
43	2,900	17,342	Charles and Company	685	4.539	4
ale	2,855	15,985	0.77	650	3,688	C.C
e U	3,647	16,299	210	LL 6	4.696	0
alc	3,355	15,301	0.12	816	3,875	0.0
v	3,732	17,075	21.0	1,209	5,360	0.7
ale	3,454	15,317	717	1,079	4,748	6:0
<u>e</u>	2,613	12,182	15.4	839	4,108	0 7
nale	2,473	11,368	4 .CI	730	3,470	Ç.
2	3,650	15,718	10.5	1,394	5,296	77
nale	3,392	14,675	17.3	1,297	4,581	0.0
Male	3,407	16,386	10.7	766	5,265	0 \$
nale	3,081	15,001	7.61	895	4,507	6.0

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to the people of the locality with their proper assessment and evaluation and (5) other ad-hoc enquiries.¹

The work of the 'Model Health and Ideal Registration Unit' consisted of complete registration by house-to-house visit by the staff of the Basic Public Health Unit during a 3-month period in 1962 unlike the normal registration under which people themselves go to the local Registrar of Births and Deaths for registration. The households under each of the Basic Public Health Units were divided into more or less 3 equal groups, namely, A, B and C so that the households of each group could be completely covered for convenience of survey operation.

The table No. 2 shows birth and death rates obtaining in the urban and rural areas of the district in recent years.

It appears from the table that the birth rate has exceeded the death rate both in the urban and the rural areas of the district in recent years.

In Nadia district, as elsewhere, children form the largest single component of the total population as revealed in the following table classifying the population (17,13,324) of the district in 1961 under different age-groups.

Table 3.

DISTRIBUTION OF THE POPULATION OF NADIA DISTRICT ACCORDING TO AGE-GROUPS: 1961

Age-Group		Rural Urban		rban
(Years)	Male	Persons	Male	Persons
0- 4	1,16,979	2,37,050	20,824	41,696
5- 9	1.16,529	2,32,849	24,235	47,786
10-14	82,225	1,51,511	19,194	36,956
15-19	59,438	1,13,502	15,340	29,256
20-24	54,719	1,11,664	14,778	28,008
25-29	55,262	1,08,783	12,718	24,268
30-34	46,149	88,862	11,174	21,296
35-44	77,184	1,42,076	18,767	33,886
45-59	70,188	1,32,638	17,356	32,775
60 +	37,028	78,082	8,770	19,399

Infant mortality

Infant mortality had always been a scourge in society; and children die because of the lack of proper pre-natal and post-

Infants

¹ J. Datta Gupta and P. G. Choudhury, Census of India: 1961: Vol. XVI: West Bengal & Sikkim: Report on Vital Statistics, Delhi, 1967, pp. 177-78.

natal care. The following table brings out the relative proportions between total deaths and infant deaths in the district between 1961 and 1966.

Table 4.

INFANT MORTALITY IN NADIA DISTRICT: 1961-66

Year	Total deaths	Total death rate per 1,000 population	Infant deaths	Infant death rate per 1,000 live births
1961	9,562	5.5	1,750	44.8
1962	10,364	5.8	1,954	50.6
1963	12,396	6.9	1,916	48.4
1964	9,147	4.9	1,466	51.2
1965	12,568	6.6	1,637	43.7
1966	11,664	5.9	1.777	46.9

In recent years, it has been seen that the most common disease of the district is influenza. Though not fatal, this disease compels a large number of patients to visit the outdoor departments of different hospitals in the district. A large number of patients visiting the outdoor departments of hospitals suffer from dysentery, eye diseases, other gastric diseases and anaemia. A detailed picture of the patients treated in the recognized hospitals of the district and the number of deaths occurring therefrom between 1961 and 1967 are set forth in Appendix A. Deaths from some selected causes between 1961 and 1967 occurring in the district have been set forth in Appendix B.

A list of public hospitals and dispensaries is given in Appendix C. They are classified into State hospitals and General hospitals catering to the needs of the members of the public, and departmental hospitals meant for different Government departments. Rural hospitals of various categories, namely, primary health centres and subsidiary health centres have been listed in Appendix D.

The following table would illustrate the total number of beds, beds meant for maternity, tuberculosis and infectious cases in the district during 1966 for 115 medical institutions. The table would

DISEASES COMMON TO THE DISTRICT

PUBLIC HOSPITALS AND DISPENSARIES

¹ Government of West Bengal, Directorate of Health Services, Annual Report on the State of Health of West Bengal (Hospital Statistics), 1966, Part II, p. 5.

also show the quantum of beds per 1,000 population for total number of cases, and for maternity, tuberculosis and infectious disease cases.

Table 5.

MEDICAL INSTITUTIONS WITH BEDS IN NADIA DISTRICT: 1966

	Beds	Beds per 1.000 population
Total	2,989	14.8
Maternity	33 9	1.7
Tuberculosis	1,768	8.8
Infectious diseases	118	0.6

As against the present position it will appear interesting that there were only 14 dispensaries and hospitals under Government supervision, though supported by local funds, in the undivided district of Nadia during the first decade of this century.¹

As to the services rendered in hospitals, it is interesting to note that 16,420 out-patients and 412 in-patients were treated respectively during the year 1907 in Krishnanagar hospital², whereas in 1966 the total number of out-patients and in-patients in the district was 21,77,521 and 7,824 respectively. The following table³ would reveal the number of patients treated and medical services rendered to them in hospitals, etc. in 1966.

Table 6.

NO. OF PATIENTS TREATED IN HOSPITALS, HEALTH CENTRES
AND DISPENSARIES IN NADIA DISTRICT: 1966

Outdoor patients	Total: new and old Total: new	••	21,77,521 10,21,949
treated	Percentage of new cases to total (old & new)	••	46.9
Indoor patients treated (20 per cent sample)	Total beds for which returns received Total No. treated	••	1.895 7.824

¹ J. H. E. Garrett, op. cit., p. 64.

² Loc. cit.

³ Government of West Bengal, Directorate of Health Services, Annual Report on the State of Health of West Bengal (Hospital Statistics), 1966, Part II, p. 55.

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Surgical operation done		
No.	• •	261
Ratio in percentage	• •	3.
X-ray done		
No.	• •	1,343
Ratio in percentage	• •	17
Laboratory examination		
No.		1,593
Ratio in percentage	••	20.
Blood transfusion in c.c.	••	3,660
Total estimates	• •	34,036
Deaths	• •	1,271
Case fatality ratio	••	3
Estimated patients		

The following table would indicate the health staff position against 3,359 beds in the district in 1971.

Table 7.

Medical Officers		Trained Dai	34
Men Women	165 18	Pharmacist/ Compounder	93
Nurses	691		
Public Health Nurses/			
Lady Health Visitors	14	X-ray Assistant	24
Midwife	18	Laboratory Assistant	28

SELECTED PUBLIC HOSPITALS

Krishnanagar Sadar Hospital

Krishnanagar Sadar Hospital began functioning as a dispensary since 1858. Formerly, it was managed by the Krishnanagar Municipality with aids received from the District Board. It was provincialized before Independence and became an important hospital of the district since Partition when a large number of displaced persons began to pour into the district. many as 4,264 patients were admitted to its indoor department of whom 225 died. In 1962, the number of patients admitted in the indoor department rose up to 7.353 of whom 476 died. The number of admissions swelled up to 11,380 in 1965 of whom 9,215 were discharged after treatment (this figure includes the number of deaths which is not available). In 1968, the number of admissions was 17.334 of whom 13.233 were discharged (this figure includes the number of deaths which is not available separately). In 1970, 16.885 patients were admitted to the hospital of whom 802 died. As to the outdoor department of this hospital, the following table would indicate the number of new cases treated there as also the number of new and old cases treated together.

Table 8.

PATIENTS IN OUTDOOR DEPARTMENT OF KRISHNANAGAR
SADAR HOSPITAL: 1965-70

Year	No. of new cases treated	No. of cases Old & New
1965	5,806	1,04,564
1968	1,03,594	2,72,854
1 97 0	1,06,806	3,31,418

Jawaharial Nehru Memorial Hospital, Kalyani Jawaharlal Nehru Memorial Hospital at Kalyani started functioning as a referral specialized hospital as also a general hospital from 1st December 1966 with only 175 beds. The number of beds has now (1971) gone up to 500 of which 160 are specialized beds and 340 general beds. Of the total number of 500 beds, 400 are free beds and the rest are paying beds. The hospital serves patients through several departments like Neuro-Surgery and Medicine. Plastic Surgery, Orthopaedic Surgery and Physiotherapy. It also handles Gynaecological and Maternity cases, Eye, ENT (Ear, Nose, Throat) and Dental cases. The following table gives the number of patients treated in the hospital in its indoor and outdoor departments between 1967 and 1970.

Table 9.

NO. OF PATIENTS TREATED IN JAWAHARLAL NEHRU
MEMORIAL HOSPITAL, KALYANI: 1967-70

Indoor ward					Outdoor ward	
Year	Admitted	Dis- charged	Died	Operation performed	New	Old cases
1967	2,533	2.275	136	267	28,799	27,753
1968	4,669	4,382	217	1,140	48,798	52,423
1969	6,372	5,976	328	2,075	71,114	78,855
1970	7,339	6.880	448	2,519	96,749	1,63,883

This hospital was converted into a temporary infectious diseases hospital from May 1971 to August 1971 for treating patients coming from Bangladesh. Between May and October 1971, 1,948 Bangladesh patients were admitted in its indoor ward, of whom 1,764 were discharged and 184 died. In its outdoor department such patients numbered 27,349 (new cases 13,043 and old cases 14,306).

Rural health activities prior to Independence were mostly concerned with preventive measures like immunization of people against Cholera, Plague, Smallpox, Enteric fever through inoculation, vaccination, etc. Anti-epidemic activities, anti-malarial activities, disinfection of public water supply and prevention of sale of adulterated food articles, etc. were also undertaken. The scheme formulating the preventive measures was initiated in 1927 by Dr. C. A. Bentley, the then Director of Public Health of Bengal.

After Independence, the Bhore Committee of 1946 recommended the setting up of Primary Health Centres with 75 beds each for every 20,000 people, but for want of fund and trained personnel the committee suggested that such centres may be opened with only two beds for Maternity and two for emergency cases for every 4,000 people. Since 1948, however, the State Government began to set up health centres, each of which was to have 4 to 10 indoor beds for serving an area now covered by an Anchal Panchayat. They were called Union Health Centres and were affiliated to the Primary Health Centres at the thana level, the latter having a minimum of 20 and a maximum of 50 beds. All health centres were again affiliated to the subdivisional hospital

Rural health organizations

having 68 indoor beds each. The scheme for establishing Union Health Centres and Thana Health Centres continued till 1949 when, at the instance of the Government of India, Primary Health Centres with 10 beds each began to be opened at the head quarters of every community development block along with two or three Subsidiary Health Centres within the block area. Subsidiary Health Centres were to have only two non-dieted emergency beds.

Though it appears that all the rural health centres have not furnished their returns during 1966, still from the figures in the following table¹ it will appear that remarkable service to the suffering patients has been rendered in different rural health centres of the district in 1966.

Table 10.

NO. OF PATIENTS TREATED IN THE HEALTH CENTRES OF NADIA DISTRICT: 1966

Health Centres from which returns were due	No. Bed		53 426
Health Centres submitting returns	No. Bed		35 336
Outdoor patients	Total: Old and new cases Total: new		15,96,017
	cases Percentage of new cases		7,58,723
	to total cases	٠.	47.7
Indoor patients	Total new cases		
	(20% sample) Turnover per	٠.	2,781
	bed		38.2
	Deaths		270
	Case fatality		
·	ratio	• •	2.2
	Estimated total		
	new cases	• •	12,825

¹ Ibid., p. 34.

Medical administration

The Chief Medical Officer of Health is in charge of the medical and public health administration of the district. Formerly, the curative side of public health was looked after by the Civil Surgeon, prototype of the present day CMOH. The preventive aspects were then looked after by the District Health Officer under Bengal Act III of 1885 and Bengal Act V of 1919. On the recommendation of the Bhore Committee both the curative and preventive aspects of public health were brought under the control of the CMOH in 1958. The CMOH is assisted by the District Medical Officer on the curative side and by the District Health Officer on the preventive side of public health. He is also assisted by an Assistant CMOH, and other Medical Officers of the Subdivisional Hospital and of the rural health centres.

Although there are quite a large number of public hospitals both in the urban and rural areas, the district has a number of hospitals and dispensaries managed by private agencies as given in the list below.

Table 11.
NAMES OF PRIVATE HOSPITALS AND DISPENSARIES IN NADIA DISTRICT: 1971

	No. of	Police	
Name	beds	Station	Post Office
Garrett Hospital +	28	Navadwip	Navadwip
Kumar Pramathanath		3817F)	
Charitable Dispensary +	(E)(E)(V)		>>
Graham Charitable	TENT	र जगाने	
Dispensary +	dald	Kotwali	Dhubulia
Dignagar Charitable		•	
Dispensary +	_	25	Dignagar
Sibananda Arogya Bhava	n		
(having ENT, chest &			
general units			
separately)+	_	Navadwip	Swarupganj
Chanderghat Charitable			
Dispensary +		Tehatta	Chanderghat
M. C. Das Charitable			
Dispensary*		Shantipur	Shantipur
St. Joseph Charitable			
Dispensary*		Kotwali	Krishnanagar
Mary Immaculate			
Charitable Dispensary*		**	,,

⁺Government-aided

^{*} Non-aided

Table 12, NAMES OF DISPENSARIES MAINTAINED BY MUNICIPALITIES AND THE ZHLIA PARISHAD, NADIA: 1971

AND TH	AND THE ZHLLA PARISHAD, NADIA: 1971	ADIA: 1971	
Name	Maintained by	Police Station	Post Office
Krishnanagar Municipal Charitable Dispensary	Krishnanagar Municipality	Kotwali	Krishnanagar
Ula Public Charitable Dispensary	Birnagar Municipality	Ranaghat	Birnagar
Majdia Charitable Dispensary	Nadia Zilla Parishad	Krishnaganj	Majdia
Kalinga Charitable Dispensary	- op-	Chapra	Kalinga
Jagannathpur Charitable Dispensary	-op-	Nakasipara	Kasiadanga
Narayanpur Charitable Dispensary	-op-	Karimpur	Omio-Narayanpur
Tehatta Charitable Dispensary	-op-	Tehatta	Tehatta
Bagula Charitable Dispensary	-op-	Hanskhali	Bagula
Majhergram (R) Charitable Dispensary	-op-	Ranaghat	Gangsara Majhergra
Haringhata Charitable Dispensary	-op-	Haringhata	Subarnapur
Betai Charitable Dispensary	- 0 0-	Tehatta	Betai

The Zilla Parishad of the district and some municipalities also maintain a number of dispensaries to render outdoor treatment to patients as given in the list at Table 12.

The Government of India has given an impetus to family planning in recent years. Prior to Independence, the idea of family planning did not reach the ordinary masses owing to deficient education and communication. Contraceptive materials were not easily available at that time. During the First Five Year Plan period after Independence, a clinical approach was undertaken in connexion with family planning. Later on, however, a massive drive was undertaken to spread knowledge of family planning as a national mission.

In 1960, family planning clinics were attached to Krishnanagar and Ranaghat Hospitals and also to the Health Centres at Shantipur, Chakdaha, Karimpur, Bethuadahari and Chapra, The number of such Centres increased over the years and at present there are 14 Rural Family Welfare Planning Centres attached to the Health Centres at Aranghata, Bethuadahari, Chakdaha, Chapra, Dakshinpara, Haringhata, Habibpur, Kaligani, Karimpur, Krishnagani, Mahesgani, Palasipara, Shantipur, and Tehatta. There are also two such Family Welfare Planning Centres in the upgraded Subsidiary Health Centres at Asannagar and Nowpara. The urban Family Welfare Planning Centres are now attached to Sadar Hospital at Krishnanagar and Subdivisional Hospital at Ranaghat, Jawaharlal Nehru Memorial Hospital at Kalyani. Besides, there is an Urban Family Welfare Planning Centre at Krishnanagar. There is also an Urban Family Welfare Planning Centre at Rādhārāņī Sevāsadan šiśu Mangal Samiti, Ranaghat, which is a voluntary organization. The following table would indicate the number of users of conventional contraceptives in the district in recent years.

Table 13.

NO. OF USERS OF CONVENTIONAL CONTRACEPTIVES RECEIVED FROM PUBLIC AGENCIES IN NADIA DISTRICT: 1969-71

Year	Target	Achievement	Percentage of target achieved
1969-70	6,500	1,661	25.5
19 7 0-71	11,500	2,500	21.7

PUBLIC HEALTH
WELFARE ORGANIZATIONS
Family Planning

The following table would reveal the number of IUCD (Intra-Uterine Contraceptive Device) cases done by the family planning agencies in the district during the last six years.

Table 14. NO. OF IUCD CASES DONE IN NADIA DISTRICT: 1965-71

Year	Target	Achievement	Percentage of target achieved
1965-66	5,961	11,783	197.7
1966-67	11,922	4,465	37.5
1967-68	6,913	661	9.6
1968-69	8,440	304	3.6
1969-70	1,700	477	28.1
1970-71	2,900	382	13.2

The following table reveals the number of sterilization cases (tubectomy for females and vasectomy for males) done by the family planning agencies in the district during the last five years.

NO. OF STERILIZATION CASES IN NADIA DISTRICT: 1966-71

	nt l	A REAL PLANTS		
Year	Target	Achievement	target achieved	
1966-67	2,000	632	31.6	
1967-68	6,000	16,466	274.4	
1968-69	12,600	13,466	106.9	
1969-70	12,700	3,734	29.4	
1970-71	13.300	1,608	12.1	

Apart from the Medical Officers and other assistants in the family planning clinics, the district organization is controlled by a District Family Planning Officer, who is under the administrative control of the Chief Medical Officer of Health of the district, assisted by an Administrative Officer, Mass Education Information Officer, a Medical Officer (male), a Medical Officer (female) and a number of statistical, field, extension and general duty assistants.

Anti-tuberculosis

Although outdoor and domiciliary treatment was rendered to T.B. patients for a long time, an extensive drive to eradicate tuberculosis has been taken up since 1966 in the district under the National T.B. Programme, 1962. For this reason, the district T.B. clinic attached to Sadar Hospital, Krishnanagar, was up-

graded to a District T.B. Centre under the aforesaid programme in 1966. The following table will show the performance of the district T.B. Centre during 1970.

Table 16.
TREATMENT RENDERED IN THE DISTRICT
T.B. CENTRE, KRISHNANAGAR: 1970

No. of average daily attendance		No. of cases de	Patients un- der treatment	
New	Old	Pulmonary	Non- Pulmonary	(Old & New)
12.5	66.6	1,582	187	4,169

There is a trained District Tuberculosis Officer along with a team of technicians posted in the centre to organize, supervise and co-ordinate all anti-T.B, activities in the district.

Outdoor treatment to T.B. patients is rendered in the rural health centres, the District T.B. Centre, Krishnanagar and in three private clinics, namely, K. C. Guha Memorial T.B. Clinic, Ranaghat; Navadwip Yakshmā Nibāraṇī Samiti Clinic, Navadwip; and Paśchim Banga Samāj Sevā Samiti Clinic, Swarupganj. While the latter is Government-aided, a domiciliary unit of the State Government is attached to each of the former two private clinics. The following is the list of T.B. hospitals in the district rendering indoor treatment.

Table 17.
T.B. HOSPITALS IN NADIA DISTRICT: 1971

Name of hospital	Year of establishment	Kind of hospital	No. of sanc- tioned beds
Kanchrapara			
T.B. hospital,			
Kanchrapara*	1946	public	925
Dhubulia			
T.B. hospital,			
Dhubulia+	1959	,,	1.000
K. C. Guha			•
Memorial			
T.B. hospital,	•		
Ranaghat	N.A.	meirota	110
Kanagnat	N.A.	private	110

N.A.—Not Available

^{*} Now Netaji Subhas Sanatorium, Kalyani. + Now Dr. B. C. Roy Chest Sanatorium.

There are also two mobile medical units under the Chief Medical Officer of Health of the district for treatment of displaced T.B. patients. One of them is stationed at Ranaghat and the other at Krishnanagar. Moreover, isolation beds numbering 4, 25 and 4 have been attached to the Sadar Hospital, Krishnanagar, Dhubulia Relief Camp Hospital, Dhubulia and Police Hospital, Krishnanagar (a Departmental hospital) respectively.

The following table gives the figures of Tuberculin tests undertaken and B.C.G. vaccination given in the district between 1965 and 1970. As direct vaccination has been introduced without Tuberculin tests since 1968, no figures for Tuberculin tests are available for 1969 and 1970.

Table 18, B.C.G. VACCINATION IN NADIA DISTRICT: 1965-70

Year	Tuberculin tests	B.C.G. vaccination +	Direct B.C.G. vaccination*
1965	72,584	45,679	
1966	71,950	30,802	***
1967	75,710	35,043	_
1968	55,995	23,563	38,245
1969	Sec.	Ed Edit 20	87,765
1970	- 6		99,718

Admission to the public hospitals and in respect of Government beds in the private hospital is controlled by the Directorate of Health Services. The following table gives the number of cases referred to for admission to the hospitals in the district between 1968 and 1970.

Table 19, ADMISSION 0F T.B. PATIENTS IN THE HOSPITALS OF NADIA DISTRICT: 1968-70

Name of		No. of cases referred to for		ients admi	tted
hospital	Year	admission	Total	Rural	Urban
Kanchrapara	1968	596	519	329	190
T.B. Hospital.	1969	530	421	272	149
Kanchrapara	1970	495	390	270	120

⁺ After Tuberculin tests
* Without Tuberculin tests

No of cases

		140. Of Cases	,			
referred						
Name of		to for	Pat	ients admi	tted	
hospital	Year	admission	Total	Rural	Urban	
Dhubulia T.B.	1968	639	517	323	194	
Hospital,	1969	566	407	N.A.	N.A.	
Dhubulia	1970	458	281	183	98	
K. C. Guha						
Memorial T.B.	1968	61	54	54	-	
Hospital.	1969	48	29	16	13	
Ranaghat (for	1970	82	50	39	11	
Government						
beds only)						
					4.1 .0	

School Health

School Health activities like the examination of health of students and suggesting treatment of their diseases and also administering vaccinations, etc. form a part of the duties of the Medical officers, specially in the rural health centres. The activities of such Medical officers, who work in close liaison with the Head Masters of Institutions and the guardians of the students in respective areas, are co-ordinated by a District School Medical Officer under the direct control of the Chief Medical Officer of Health.

In Nadia district, 36 Health Centres sent reports of their activities to the Directorate of Health Services of the State in 1970. It appears therefrom that out of a total of 456 schools in the area covered, only 299 schools were visited during that time. Out of a total number of 65,109 students, 22,207 students were examined, of whom 6.282 students were found suffering from some ailment. It appears that the largest number of students suffered from diseases of teeth and gum (3,434), defective nutrition (798), enlarged tonsils and adenoids (522), anaemia (241) and eye diseases (176).

The following table gives the number of immunizations done to them in 1970.

Table 20.
IMMUNIZATION DONE TO SCHOOL STUDENTS OF NADIA DISTRICT: 1970

Small-pox Vaccinations

	Re-vac-			
Primary	cination	T.A.B.C.	T.A.B.	Cholera
460	7,539	13,306	34	7.098

Milk feeding programme The UNICEF skimmed milk feeding programme in the district was executed through the Primary Health Centres and a few Maternity and Child Health Centres under the Control of the Chief Medical Officer of Health. The District Health Officer assisted the CMOH in the matter of supervising the Feeding Centres. There is, however, no Non-government Distributing Agency in the district.

As UNICEF finally decided to withdraw from the field of milk feeding programme, there has been no supply of such milk in the district since 1970-71. The State Government, however, has been considering another milk feeding programme with the assistance of CARE. In that scheme Corn-SOYA-Milk and Salad Oil would be supplied to under-nourished, expectant and nursing mothers and children in cooked form.

The following table gives figures as to the number of beneficiaries under the programme and other relevant details of the district for the years between 1965 and 1970.

Table 21.
MILK FEEDING PROGRAMME IN NADIA DISTRICT: 1965-70

	No. of Feeding	Total No. of	Quantity of milk powder
Year	Centres	beneficiaries	supplied
*	S. T. S.	10 PM	(lbs.)
1965-66	12	963	28,800
1966-67	13	1,300	7,922
1967-68*	13	1,276	11,800
1968-69	14	1,215	21,790
19 69-7 0	13	1,200	5,400

Anti-malaria activities

Malaria used to take a heavy toll of lives in this district, as in other districts of West Bengal in the past. As a preliminary step to control the disease, anti-larval measures with 50 per cent grants from the State Government were taken up by the municipalities of the district between 1949 and 1951. In 1952-53, the State Government took up a bigger scheme for control of malaria by spraying DDT in all the houses of the district. At that time a District Medical Officer with several Malaria Supervisors, Inspectors, etc. actively participated in the control of malaria by spraying two rounds of DDT in different zones. The

as there was shortage of skimmed milk powder,

Cooperative for American Relief Everywhere.
 * In addition, 12,000 lbs. of Corn-SOYA-Milk Mix was supplied this year

National Malaria Control Programme was adopted in 1953-54 and insecticides were sprayed in large scale inside all the houses and cattle sheds throughout the district, which activity continued till 1958-59. It will be seen that in 1948 the number of deaths from malaria in Nadia was 8,551 (9.9 per thousand), which figure went down to 78 (0.05 per thousand) in 1961 owing to the measures taken to eradicate malaria from the district. As malaria was controlled, eradication programme continued under the name Surveillance Operation since 1961-62 till 1966. When the Surveillance Operation found that intensity of the disease could not be re-established, the spraying operation began to be withdrawn.

Malaria used to contribute more than 40 per cent of cases treated in the hospitals, health centres and dispensaries in a year in the district prior to the introduction of anti-malarial measures. The appendices A and B will show how the number of malaria cases has gone down in recent years. The following table would indicate the incidence of malaria in the district in the years immediately preceding and following the anti-malaria operation.

Table 22.

MALARIA CASES PRECEDING AND FOLLOWING ANTI-MALARIA
MEASURES IN NADIA DISTRICT: 1948-61

Year	Total No. of cases	Percentage of such cases	Total deaths	Death rate per thousand
1948	1,82,032	58.2	8,551	9.9
1949	1,74,236	55.4	8,602	9.9
1950	1,18,718	49.2	6,317	7.3
1951	1,01,272	44.6	3,437	4.0
1952	1,08,832	46.8	3,554	3.1
1953	55,256	26.7	3,77 2	3.2
1954	82,460	16.9	2,540	2.1
1955	56,768	12.5	1,396	1.1
1956	48,236	7.5	1,058	0.8
1957	40,098	5.0	1,194	0.9
1958	14,636	1.7	663	0.5
1959	7,318	1.07	247	0.2
1960	3,374	0.4	196	0.1
1961	1.792	0.2	78	0.05

One of the methods of measuring the degree of prevalence of malaria in a locality is to determine the spleen rate, that is,

the percentage of children between the ages of 2 and 10 showing enlarged spleen. The spleen census undertaken in the villages of the district, before anti-malaria measures were instituted in 1952-53, indicated prevalence of endemic condition in all the police stations except Navadwip, Kaliganj, Chapra and Karimpur. The following table shows how the spleen rate in different police stations in Nadia has gone down after the introduction of anti-malaria measures in 1952-53.

Table 23.
SPLEEN RATE IN NADIA DISTRICT: BEFORE AND AFTER 1952-53

Name of police stations	Prior to institution of control operation —Spleen rate per cent (Before 1952-53)	After control operation—Spleen rate per cent (1959-60)
Krishnanagar	26.5	0.3
Chapra	8.8	0.1
Navadwip	0.7	0.0
Krishnaganj	28.8	0.1
Nakasipara	10.8	0.0
Kaliganj	5.2	0.0
Tehatta	11.2	0.3
Karimpur	8.9	0.08
Ranaghat	56.8	0.05
Chakdaha	52.3	0.0
Hanskhali	51.9	0.0
Shantipur	30.2	0.3
Haringhata	54.8	0.0

SANITATION

Public health activities were formerly performed by the District Board in the rural areas. This part of the work was, however, taken over by the government with effect from 1st January 1959. Although the Chief Medical Officer of Health became the head of public health administration of the district since 1959, the person directly responsible for public health activities in the district is the District Health Officer. He looks after the public health activities of the district in general and of the Sadar subdivision in particular. There is also a Subdivisional Health Officer in the Ranaghat subdivision to look after the public health activities there. There is an Assistant District Health Officer in the district who looks to the malaria eradication programme. The District Health Officer is responsible for the

administration of the Central Prevention of Food Adulteration Act. 1954 of the entire district as also for supervision of the District Public Health Laboratory and the working of the Subdivisional Health Officer in regard to the public health activities. He is also the Superintendent of Vaccination as defined in the Vaccination Act, 1880. The district is divided into 16 rural health circles covering 93 Anchal Panchayats in connexion with the public health activities. There is a Sanitary Inspector in each circle assisted by Supervisors, health and other assistants. There are also basic health workers numbering between 4 and 6 in each circle belonging to the malaria eradication programme.

Although a Supervisor has been deputed by Government to each of the Navadwip and Krishnanagar Municipalities, the public health activities of the municipalities of the district are conducted by the municipalities themselves. They have their own Sanitary Inspectors, Vaccinators and Inoculators to look after the public health welfare activities in their areas.

The following statement shows the Immunization status in the Immunization district between 1966 and 1970.

		Table 24.		
Year	Primary Vaccination	Re-vac- cination	A.C.I.	T.A.B.C
1966	40,124	70,470	2,31,002	519
1967	46,296	1,53,698	2,74,811	802
1968	61,767	2,13,535	91,530	1,204
1969	65,089	3,01,684	1,99,769	1,703
1970	65,424	2,46,005	67,022	1,107

Drinking water in the rural areas is obtained from tube-wells. There is an Assistant Engineer for Rural Water Supply under the Directorate of Public Health Engineering to look after the sinking, re-sinking and maintenance of the tube-wells of the district. He is helped by a Sub-Assistant Engineer and a Sub-Overseer posted in each of the two subdivisions, namely, Sadar and Ranaghat. Tube-wells are sunk by different local and Government agencies, namely Anchalik Parishad, Gram Sabha, Tribal Welfare Directorate, Subdivisional Officers executing local development schemes and the Public Health Engineering Directorate. The district is provided with tube-wells on the basis of one

Water supply

tube-well per 400 heads. The following table would indicate the number of tube-wells sunk, re-sunk and existing between 1961 and 1969 in the district.

Table 25.
NO. OF TUBE-WELLS IN NADIA DISTRICT: 1961-69

Year	Sunk	Re-sunk	Existing
1961	150	200	6,865
1962	7 2	128	7,215
1963	20	30	7,415
1964	78	72	7, 465
1965	26	30	7,615
1966	20	14	7,671
1967	-5	355	7,705
1968	20	20	8,060
1969	13	12	8,085

While in Chakdaha police station potable water is available at an average depth between 200 ft, and 300 ft., in Haringhata police station it is available between 300 ft. and 350 ft. In the other police stations, the average depth for obtaining potable water is 250 ft.

Piped water supply exists in Krishnanagar and Navadwip municipal areas. It is looked after by the municipalities themselves. A Water Supply Scheme for Shantipur municipality is under execution.

APPENDIX A

PATIENTS TREATED IN RECOGNIZED HOSPITALS IN NADIA DISTRICT AND DEATHS FROM SPECIFIC CAUSES: 1961-671

Name of diseases		1961	1963	1965	1967
Total patients	Outdoor	1,00,72,599	1,12,53,999	1,12,52,054	1,16,71,555
West Bengal	Deaths	16,408	26,843	21,561	24,465
Total patients	Outdoor	7,41,777	609'98'6	9,50,817	8,49,343
treated in Nadia	Indoor	5,544	31,235	30,572	25,518
district	Dearns	ा जया	1,530	796	1,093
Allergic	Outdoor	2,343	5,341	6,410	6,903
diseases	Indoor	'n	40	45	24
	Deaths	1 ;	1	I	İ
Anaemias	Outdoor	12,560	16,195	17,068	19,645
	Indoor	148	979	77.1	628
	Deaths	34	59	46	119
Cholera	Outdoor	330	191	1,380	433
	Indoor	. 2	8	16	28
	Deaths	2	16		1

APPENDIX A (Contd.)

Name of diseases		1961	1963	1965	1961
Diabetes	Outdoor Indoor Deaths	396 2	27 16 1	522 16 1	134 20 2
Diphtheria	Outdoor	182	225	137	122
	Indoor	45	198	269	101
	Deaths	16	41	24	20
Diseases of child-birth	Outdoor	5,293	6,935	4,898	6,680
	Indoor	466	2,649	2,695	1,941
	Deaths	78	89	45	28
Dysentery	Outdoor	55,103	79,917	78,784	93,073
	Indoor	166	961	828	524
	Deaths	37	55	38	24
Early Infancy diseases	Outdoor Indoor Deaths	356 42 33	385 106 82	166 20 15	311 41 9

Effects of poisons Eye diseases	Outdoor Indoor Deaths Outdoor	377 156 33 44,079	498 862 63 29.346		385 955 55 46,753
	Indoor Deaths	06		354	
Filariasis	Outdoor Indoor Deaths	436		349	49 587 12 5
Food poisoning	Outdoor Indoor Deaths	1,241 2 2	1,684	4	1.133 19 66 2 1
Gastric discases	Outdoor Indoor Deaths	30,617 150 18	34.214 794 25	25 25 25	14 41,507 94 923 25 18
Gonococcal infection	Outdoor Indoor Deaths	196	376	1 -	1 271

APPENDIX A (Contd.)

Name of					
diseases		1961	1963	1965	1961
Heart diseases	Outdoor	412	515	706	205
	Indoor	41	128	191	141
	Deaths	21	34	56	19
Infectious	Outdoor	773	2,725	731	2,156
Hepatitis	Indoor	3 //	SI 7. 15	36	43
į.	Deaths		2 2 2	-	7
Influenza	Outdoor	61,048	71,146	44,851	62,673
	Indoor	99	359	395	284
	Deaths	lu-		1	1
Kala-azar	Outdoor	93	47	53	36
	Indoor	_	9	10	2
	Deaths	_	7	1	1
Leprosy	Outdoor	380	194	208	83
	Indoor	I	7	5	l
	Deaths	1	1	1	1
Malaria	Outdoor	1,736	3,146	1,003	334
	Indoor	12	<i>L9</i>	25	17
	Deaths	_	1	1	1

APPENDIX A (Contd.)

Name of				ı 	
diseases		1961	1963	1965	1961
Pneumonia	Outdoor	3,739	3,924	2,158	3,371
	Indoor	63	242	246	138
	Deaths	28	27	21	20
Scurvy	Outdoor	6	80	10	7
	Indoor		~ N	l	l
	Deaths		To the second	l	1
Small-pox	Outdoor	100	250	231	179
ı	Indoor		15	1	2
	Deaths	1	7	l	l
Syphilis	Outdoor	1111	251	287	118
	Indoor	1	9	l	1
	Deaths	1	1	1	1
Tetanus	Outdoor	8	181	135	114
	Indoor	81	328	355	328
	Deaths	50	109	82	110
T.B. — Bones	Outdoor	92	106	28	153
	Indoor	13	51	20	11
	Deaths	7	1	1	1

T.B. — Intestines	Outdoor	9	71	29	39
	Indoor	9	11	4	35
	Deaths	m	က	4	6
T.B. — Meninges	Outdoor		-	Į	4
	Indoor	-	5	0 0	က
	Deaths	-	S	ĸ	—
T.B. — Other	Outdoor	33	158	84	461
forms	Indoor	-	4		∞
	Deaths	I	8	-	1
T.B. — Pulmonary	Outdoor		2,997	1,828	2,088
	Indoor	5	577	1,075	1,074
	Deaths		16	125	162
T.B. — Respiratory	Outdoor		216	387	168
system	Indoor		26	23	16
	Deaths	3	8	m	2
Typhoid fever	Outdoor	2,355	4,049	1,590	2,315
	Indoor	. 84	578	472	391
	Deaths	7	10	7	7
Whooping	Outdoor	2,809	3,983	2,099	4,885
Cough	Indoor	1	S	I	က
	Deaths	1	1	ļ	ļ

¹ Source: Directorate of Health Services, Government of West Bengal, Annual Reports on the State of Health of West Bengal, Part-II, 1961, 1963, 1967 (unpublished).

APPENDIX B

DEATHS FROM SELECTED CAUSES IN NADIA DISTRICT: 1961-671

	1961		1963	-	1965	5	1961	1
		Rate		Rate		Rate		Rate
		per)		(ber		(ber		(per
Causes	Deaths	1000)	Deaths	1000)	Deaths	1000)	Deaths	1000)
All causes:		1	Sept.	A THE SECOND				
WEST BENGAL*	2,00,677	6.2	2,17,710	6.5	1,93,536	5.6	1,64,221	1
Nadia District	9,562	5.5	12,396	6.9	12,568	9.9	10,422	5.24
Accidents	237	75	290	.2	349	4	349	.18
Anaemias	70	7 0.	94	.05	123	90:	126	90:
Bronchitis	84	.05	66	.05	153	80:	157	80.
Cholera	17	.01	311	ci	94	.05	က	1
Diabetes	10	.00	12	10:	7	ļ	18	10.
Diphtheria	20	10:	38	.02	57	.03	24	10:
Dysentery	381	ci	90/	4.	743	.39	620	.31
Early Infancy diseases	1,383	∞i	191	4	899	κi	483	.24
Food poisoning	_	1	m	ŀ	က	1	7	1
Gastritis, etc.	137	Ε.	184	- ;	197	-:	163	80
Gonococcal								
infection, etc.	ļ	1	_	1			1	1

Heart diseases	20	.01	25	.01	57	.03	40	.02
Leprosy	24	10.	17	.01	15	ł	9	1
Malaria	78	50.	13	.01	11	}	3	1
Malignant neoplasm	33	.02	62	.03	99	.03	66	.05
Measles	20	10:	30	.02	31	.02	20	10:
Pneumonia	246	- :	252	∺ :	246		192	.10
Pregnancy diseases	125	3.2	102	2.5	69	1.8	09	1.54
Senility, etc.	5,213	3.0	7,352	4.1	7.657	4.0	5,897	2.96
Small-pox	1		186	C. C.	91	j	4	{
Snake-bite, etc.	103	な曲を	162	60.	156	80.	100	.05
Suicide	129		81	.04	127	.07	101	.05
Syphilis	2	49			ļ	}		1
Tetanus	143	可	258		239	Ξ.	318	91.
T.B. — Bones	1	72 11 11			7	1	1	,
T.B. — Meninges	ĸ)	_	1	-	1	9	1
T.B. — Other forms	1	1	1	1		1	4	1
T.B. — Pulmonary	74	9	8	.03	63	.03	70	9.
T.B. — Respiratory								
system	161	1.	202		181	60.	170	60.
Typhoid	159		204	-:	141	.07	149	.07
Ulcer of Stomach	32	.02	36	.02	40	.02	52	.03

Source: Directorate of Health Services, Government of West Bengal, Annual Reports on the State of Health of West
 * Excluding Calcutta.

APPENDIX C

NAMES OF PUBLIC HOSPITALS IN NADIA DISTRICT: 1976

STATE HOSPITALS	Controlled by	No. of beds
Jawaharlal Nehru Memorial Hospital, Kalyani	Directorate of Health Services, West Bengal	200
Gandhi Memorial Hospital, Kalyani (for chest cases only)		200
Dr. B. C. Roy Chest Sanatorium (Dhubulia T. B. Hospital)		1,000
Netaji Subhas Sanatorium (Kanchrapara T. B. Hospital)		925
Kalyani E.S.I. Hospital	Labour Department, Government of West Bengal	266
GENERAL HOSPITALS .		
Nadia District Hospital	C. M. O. H., Nadia	450
Subdivisional Hospital, Ranaghat	:	131
Police Hospital, Krishnanagar	Departmental hospital	46

33	20	30	25	2
3	Y)	64.3		ഹ

C. M. O. H., Nadia

Dhubulia R. C. Hospital, Nadia

Jail Hospital, Krishnanagar

Cooper's P. L. Home, Ranaghat
Navadwip General Hospital
Shantipur Rural Hospital
Names of dispensaries for displaced persons

in Nadia: 1971

Champta Women's Home Outpatients'

Dispensary, Kotwali

Ranaghat Women's Home

Outpatients' Dispensary Dhubulia Outpatients' Dispensary, Dhubulia

Rūpasrīpallī P. L. Camp, Ranaghat Chāndmāri P. L. Camp Outpatients' Dispensary, Gayespur Colony

C. M. O. H., Nadia

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APPENDIX D

NAMES OF RURAL HEALTH CENTRES IN NADIA DISTRICT: 1971

Subdivision	Development Blocks	Primary Health Centres at	Subsidiary Health Centres at
Ranaghat	Chakdaha	Chakdaha (20)	Moshra Sutragachi Chowgacha Srinagar
	Hanskhali	Dakshinpara (10)	Badkulla (10) Ramnagar
	Ranaghat I	Habibpur (10)	Paharpur Paschim Noapara
	Ranaghat II	Aranghata (10)	Gangnapur Duttaphulia (10) Kamalpur

Kasthadanga (4) Birohi Nagarukhra	Baganchra (10) Gayespur (10) Nabla (10) Arbandi (10)	Mira (10) Panighata (10) Juranpur (4) Debagram Matiari	Matiari Banpur Bhajanghat Joyghata	Jamsherpur (10) Natidanga (10) Nadanpur (Gopālpur) Sikārpur
Haringhata (20)	Shantipur (20)	Kaliganj (20)	Krishnaganj (20)	Karimpur (20)
Haringhata	Shantipur	Kaliganj	Krishnaganj	Karimpur

APPENDIX D (Contd.)

Subdivision	Development Blocks	Primary Health Centres at	Subsidiary Health Centres at
Sadar (Contd.)	Nakasipara	Bethuadahari (50)	Dharmada (10) Nakasipara (Dadpur) (10)
			Chak Gnumi Majhergram
	Navadwip	Mahesganj (10)	Sri Mayapur
	Chapra	Chapra (20)	Hridaypur (10)
	Krishnanagar-I		Asannagar Bhālukā
	Krishnanagar II	I	Nowpara
	Tehatta I	Tehatta (10)	Barnia
	Tehatta II	Palashipara (10)	1

No, of beds in the Health Centres has been shown within brackets. Each Subsidiary Health Centre contains 2 beds where not otherwise mentioned,

CHAPTER XV

PUBLIC LIFE AND VOLUNTARY SOCIAL SERVICE ORGANIZATIONS

At the time of the General Elections in 1967, the district had 14 Vidhan Sabha (Legislative Assembly) constituencies, all single-member, namely Karimpur, Tehatta, Kaliganj, Nakasipara, Chapra, Navadwip, Krishnanagar West, Krishnanagar East, Hanskhali, Shantipur, Ranaghat West, Ranaghat East, Chakdaha and Haringhata. Three of these, namely Nakasipara, Hanskhali and Ranaghat East constituencies were reserved for the Scheduled Caste candidates.

REPRESENTATION OF THE DISTRICT IN THE STATE AND UNION LEGISLATIVES

Vidhan Sabha

Lok Sabba

For election to the Lok Sabha (the House of the People) the district was divided into two single-member constituencies one of which, Navadwip was reserved for a Scheduled Caste candidate. The Navadwip constituency covered the Navadwip, Hanskhali, Shantipur, Ranaghat West, Ranaghat East, Chakdaha and Haringhata Assembly constituencies. The other constituency, Krishnanagar consisted of Karimpur, Tehatta, Kaliganj, Nakasipara, Chapra, Krishnanagar West, Krishnanagar East Assembly constituencies.

Vidhan Parishad

Under the Delimitation of Council Constituency (West Bengal) Order 1951, substituted by the Delimitation of Council Constituencies (West Bengal) Amendment Order 1961, the district had a provision for representation on the State Vidhan Parishad (Legislative Council). But except for the single nominee of the district local authorities, the seat for the West Bengal South East Graduates' constituency was shared by the district along with Murshidabad, 24-Parganas and Howrah, and that for the West Bengal South-East Teachers' constituency with Murshidabad, Hugli and Howrah. The Vidhan Parishad was abolished in 1969.

Besides the General Elections of 1952, 1957, 1962 and 1967, mid-term elections to both the State Vidhan Sabha and the Central House of the People were held in 1971 and elections to the State Vidhan Sabha were held in 1969*. In addition to these, 4 by-elections were held in different constituencies of the district as detailed below.

In the First General Elections in 1952, the district elected 10 representatives from 9 Vidhan Sabha constituencies. Eight, out

First General Elections 1952

^{*} Fifth General Elections of 1972 is described later.

of these ten, were single-member constituencies, one a doublemember constituency had provision for electing one Scheduled Caste candidate. Of the 10 representatives 9 belonged to the Indian National Congress and 1 to the Krishak Mazdoor Praja Party. The successful Congress candidate polled 48.24% of valid votes cast in Tehatta, 58.08% in Kaliganj, 45.71% in Nakasipara, 56.29% in Chapra, 53.21% in Krishnanagar, 39.88% in Navadwip and 38.11% in Shantipur constituencies. In the two Ranaghat constituencies (one reserved for a Scheduled Caste candidate) the successful Congress candidates secured respectively 30.75% and 25.31% of the valid votes cast. In Karimpur constituency, the successful KMPP candidate obtained 48.44% of the valid votes polled. In the constituency last mentioned, the nearest rival to the successful KMPP candidate belonged to the Congress party and polled 41.92% of the votes. The predominent hold of the Indian National Congress on the electorate of the district at the time of the First General Elections is indicated by the election results. The Krishak Mazdoor Praja Party which put up candidates at Kaligani and Shantipur constituencies, polled 12.86% of the votes at the latter constituency, whereas in the former its hold on the electorate appeared to be negligible.

The Socialist Party, another all India party, set up 4 candidates. In the Ranaghat double-member constituency, the Socialist Party candidate secured 14.21% votes, the successful Congress candidates scoring 30.75% and 25.35% votes respectively. In Tehatta, the Socialist Party candidate polled 16.52% votes, the third highest, his nearest rival, an Independent, scoring 28.16%, while in Chapra, where the Socialist Party candidate also stood third on the list and secured 14.97% as compared to the second, an Independent who polled 20.04% of the valid votes.

The Bharatiya Jana Sangha set up 4 candidates. The party showed some hold on the electorate at the Kaliganj constituency where the party's nominee polled 30.14% of the valid votes and came next to the winning candidate belonging to the Indian National Congress who secured 58.08%. In the Shantipur constituency, where there were as many as seven candidates, the Bharatiya Jana Sangha nominee secured 12.43% and stood fourth on the voting list, the first three belonging to the Congress, (38.11%), the Revolutionary Communist Party of India (21.43%) and the KMPP (12.86%). In two other constituencies, Ranaghat and Chapra, the Bharatiya Jana Sangha candidate obtained only 5.6% and 2.04% votes respectively.

The only Communist Party candidate in the district was set up in the Navadwip constituency. Although he lost to the Congress candidate, he had polled 36.61% votes against 39.88% secured by the latter.

The Hindu Mahasabha candidate at the Ranaghat double-member constituency obtained only 7.11% of votes. The Ram Rajya Parishad too set up a candidate in Chapra but its influence was negligible.

In the elections to the Lok Sabha both the seats of the district went to the Congress. At Krishnanagar the Congress candidate, who was opposed by Independent candidates, polled 57.52% of the valid votes cast. In Shantipur, the Congress candidate, who was opposed by an RCPI nominee and 4 Independents, polled 49.98% votes, the RCPI candidate securing 16.31%.

During the period 1952-55, one by-election to the State Vidhan Sabha from the Shantipur constituency and one to the Lok Sabha from Navadwip were held for seats rendered vacant by the death of Congress members. Both these seats were retained by the Congress, both the representatives to the Lok Sabha securing more than 55% of the valid votes cast. The winning candidate's nearest rival, a Communist Party of India nominee, won about 22% and a third candidate belonging to the Praja Socialist Party secured a little over 15%. In the Vidhan Sabha election, the winning Congress candidate who secured over 60% of the votes, was opposed by an Independent candidate.

In the Second General Elections held in 1957, the district elected 11 representatives to the Vidhan Sabha from 9 Assembly constituencies, two of which were double-member. In the two double-member constituencies, one of the seats was reserved for a Scheduled Caste candidate. In the Second General Elections, too, all the State Vidhan Sabha seats, except one, went to the Congress, the Praja Socialist Party securing the single remaining seat.

Four political parties contested the elections, the Indian National Congress in all the 11 constituencies, PSP in 4 constituencies, the Communist Party of India in 3 constituencies and the Bharatiya Jana Sangha in one. Ten constituencies returned Congress candidates. In Tehatta, there was a straight contest between a Congress candidate and a PSP nominee, the former won securing 71% of the valid votes. At the other constituencies, the percentage of the valid votes polled by the Congress candidates was as follows: Ranaghat 46.60, Haringhata 25.29,

Lok Sabha

By election

Second General Elections 1957 412

Haringhata Scheduled Caste 25.87, Shantipur 46.99, Navadwip 50, Krishnanagar 62, Nakasipara 40, Nakasipara (S.C.) 39 and Karimpur 56.

The PSP secured the Chakdaha seat, its candidate polling 52.20% of the valid votes. The nearest rival, a Congress candidate, obtained 42.80%. In other constituencies where the party set up its candidates, it showed some hold on the electorate. At Ranaghat, the PSP candidate polled 32.30% and at Tehatta 29%. At Karimpur, however, the party's candidate secured 11%, the winning Congress candidate polling 56%.

The Communist Party of India which set up candidates at the Haringhata and Navadwip constituencies, did well although they failed to win a seat. At the Haringhata general constituency, the CPI nominee polled 21.81%, the winning Congress candidate securing 25.29%. In the Haringhata (S.C.) constituency, the respective figures for the CPI nominee and the winning Congress candidate were 21.99% and 25.87%. In Navadwip, the CPI candidate, who polled 47%, was defeated by the Congress candidate securing 50% of the valid votes.

The Bharatiya Jana Sangha whose sole nominee contested the elections at Ranaghat secured only 6.50% votes.

For election to the Lok Sabha, the district returned only one representative from the Navadwip constituency which covered the Sadar subdivision (excluding Krishnaganj P.S.) and the Shantipur P.S. in the Ranaghat subdivision. In this constituency, the Congress candidate was elected in a straight contest polling 61.21 per cent of valid votes cast, the remaining votes going to an Independent candidate.

Third General Elections 1962 In the Third General Elections held in 1962, the hold of the Congress on the electorate in the district showed a decline in some areas. The district returned 11 representatives to the State Vidhan Sabha from 11 constituencies, all single-member, two of these, Chapra and Hanskhali, reserved for Scheduled Caste candidates. Six, out of these 11 seats, went to the Congress. In the Karimpur constituency, the Congress candidate won with 47.30% votes, his nearest rival, an Independent candidate securing 40.72%. The other constituencies where the Congress candidate won, were: Nakasipara (55.04%), Tehatta (56.39%), Hanskhali (S.C.) (38.88%), Chakdaha (51.04%) and Haringhata (46.97%).

The CPI showed greater hold on the electorate than in the previous elections. It returned two candidates, one from the

Lok Sabha

Navadwip constituency polling (59.19%) valid votes, and another from Ranaghat polling 46.82%. The CPI candidate set up in Haringhata constituenccy, lost to the Congress candidate but polled 39.26% votes. So, also in Hanskhali the CPI candidate, who lost to the Congress nominee, secured 30.22% votes, the winning candidate polling 38.88%. In Chakdaha where the CPI nominee polled least, secured 24.72% of the votes cast.

Samjukta Biplabi Parishad (SBP) won the Chapra (S.C.) seat polling 51.62% vote. Of the three other SBP candidates who contested the elections, the one from Nakasipara stood next to the winning Congress nominee and polled 20.41% votes. The other two, one from Tehatta and the other from Shantipur, secured 11.20% and 10.93% votes respectively.

The PSP set up two candidates of whom one was returned from the Krishnanagar constituency securing 46.76% votes. The other candidate who was set up from the Ranaghat constituency, obtained 8.62%.

The Bharatiya Jana Sangha set up four candidates, but its hold on the electorate was very small as reflected in the percentage of the votes polled by the party's candidate which ranged from 1.17 at Haringhata to 3.32 at Karimpur.

The only candidate set up by Hindu Mahasabha secured 3.32% votes at Hanskhali.

The Socialist Unity Centre (SUC) set up a candidate at Nakasipara. He showed insignificant influence on the electorate.

For the Lok Sabha seat, the district had one constituency, Navadwip, comprising the assembly constituencies of Karimpur, Tehatta, Nakasipara, Krishnanagar, Navadwip and Shantipur. This Parliamentary constituency returned an Independent candidate who contested the Congress nominee in a straight fight. The Congress candidate, though defeated, polled 44.31% votes.

In December 1964, a by-election was held for the Hanskhali Legislative Assembly seat caused by the resignation of the Congress member of the Vidhan Sabha representing the constituency. In the election, the Congress retained the seat polling 51.01% of the valid votes cast. He was opposed by a CPI nominee and two Independents. The CPI candidate came third on the voting list polling 18%.

The picture was radically different in the Fourth General Elections, 1967. In these elections, the predominent position of the Indian National Congress was severely undermined by the leftist parties. In the 14 Assembly constituencies in the district,

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By-election 1964

Fourth General Elections 1967 the score card was as follows: Indian National Congress 4, Bangla Congress 5, CPI 1, CPI (Marxist) 2, SSP 1, and one seat went to an Independent candidate. The Indian National Congress set up 14 candidates, the Bangla Congress 6, the Communist Party of India (Marxist) 5, CPI 2, the Samyukta Socialist Party 2, the Bharatiya Jana Sangha 3, and the Republican Party of India 1. Of the 14 constituencies, all of them single membered, three, namely, Nakasipara, Hanskhali and Ranaghat East were reserved for Scheduled Caste candidates.

In the five constituencies which returned the Bangla Congress candidates, the winning candidates polled 68.95% votes at Karimpur, 49.96% at Nakasipara, 60.24% at Chapra, 67.70% at Hanskhali and 42.11% at Chakdaha. The nominee of the party who lost to a Congress candidate in a straight fight at Kaligani polled 46.88% votes.

The Communist Party of India (Marxist) bagged the Shantipur and the Krishnanagar West seats, the candidates polling 47.63% and 43.57% votes respectively. In the Tehatta constituency where the CPI (M) candidate lost to a Congress nominee in a fourcornered contest, he secured 43.26% votes, the Congress candidate polling 44.36%. In Navadwip constituency, the CPI (M) candidate secured 44.28% votes although he failed to reach the top of the polls. In Ranaghat West, the CPI (M) candidate polled 38.15%, his nearest rival, the winning Congress candidate, secured 49.55%.

In Krishnanagar East, the Samyukta Socialist Party candidate who defeated the Congress nominee in a straight contest, polled 67.99% votes. But the party's candidate from Krishnanagar West obtained only 9.06%.

The Communist Party of India won the Ranaghat East seat, its candidate polling 50.46%. Its other candidate who was set up in the Haringhata constituency, obtained 16.30% votes.

The Indian National Congress set up 14 candidates, from each constituency. The party's candidates won at Tehatta with 44.36% votes, at Kaliganj with 53.15% votes, and at Navadwip with 50.94% votes. At 10 other constituencies, the Congress candidates, though losing the elections, came next to the winner with 22.39% votes at Karimpur, 38.61% at Nakasipara, 30.19% at Chapra, 37.73% at Krishnanagar West, 32.01% at Krishnanagar East, 32.88% at Hanskhali, 38.15% at Shantipur, 40.77% at Ranaghat East and 40.98% at Haringhata. At Chakdaha

where the Congress nominee stood third on the voting list, secured 26.11% votes.

The Bharatiya Jana Sangha and the Republican Party of India showed insignificant influence on the electorate.

For the Lok Sabha election the entire district was divided into two constituencies: Krishnanagar, consisting of Karimpur, Tehatta, Kaliganj, Nakasipara and Krishnanagar East and West Assembly constituencies; and Navadwip covering Navadwip, Hanskhali, Shantipur, Ranaghat East and West, Chakdaha and Haringhata Assembly constituencies.

Both the constituencies had provision to return one member each, the Navadwip constituency being reserved for a Scheduled Caste representative.

The results of the elections from both the constituencies show wins for non-Congress candidates. In Krishnanagar, the Congress candidate lost to an Independent, the former polling 37.48% votes, the latter 47.52%. In the Navadwip (S.C.) constituency, the Bangla Congress nominee secured 61.84%, the Indian National Congress candidate polling 38.76%.

Two mid-term elections of a general nature were held after the Fourth General Elections. The first of these were held in February 1969 for the election of members of the State Vidhan Sabha which was earlier dissolved. The Second Elections, which were held on 10th March 1971, elected, along with the other States members of the Lok Sabha. At the same time, the members of the State Vidhan Sabha, which meanwhile stood dissolved for the second time, were also elected.

These elections show some interesting trends so far as the State's political parties are concerned. In the first elections (1969), all India parties like the Hindu Mahasabha and the Jana Sangha did not set up candidates. The Congress in West Bengal faced the challenge of the United Front of left parties which had combined to set up candidates against the Congress nominee. Another feature was the growth in influence of parties like the Communist Party of India (Marxist) and the Communist Party of India, a larger number of whose members were successful at the polls.

In these elections, the Congress set up candidates for all the 14 constituencies of the district of whom 5 were elected. The stiffest opposition, a successful Congress candidate had to face was at Karimpur where the Congress candidate polled 33.71% of the valid votes cast, while the CPI (M) candidate who came

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Mid-term Elections 1969, 1971 next secured 33.61%. The actual difference in the votes obtained by the candidates was 50 only.

The influence of the Congress on the electorate showed its highest at Nakasipara where the party's candidate won with 53.78% of votes. At other centres where the Congress candidate won, the percentages of votes polled, were as follows: Tehatta 52.18, Kaliganj 51.83 and Navadwip 51.75.

In the constituencies where the Congress was defeated, its influence was not inconsiderable as may be evident from the percentage of votes polled by the party's candidates who were defeated but came next to the winning candidates at the following constituencies: Chapra 39.77%, Krishnanagar West 40.03%, Krishnanagar East 37.92%, Hanskhali (S.C.) 45.69%, Shantipur 42.19%, Ranaghat East 43.59%, Ranaghat West 40.07%, Chakdaha 28.73% and Haringhata 44.58%.

The Communist Party of India (Marxist) and the Bangla Congress secured 3 seats each. The CPI (M) candidate won the Krishnanagar West seat polling 50.69%, the Ranaghat East seat polling 55.72%, and the Ranaghat West polling 53.71% votes. The party set up 6 candidates and the three defeated candidates polled as follows: 33.61% at Karimpur, 44.94% at Tehatta and 45.92% at Navadwip. The narrow margin of votes by which the CPI (M) candidate lost at Karimpur has been mentioned earlier.

The Bangla Congress proved a formidable rival to the Congress and three of the five candidates set up by the party won with 40.24% votes at Chapra, 51.75% at Hanskhali (S.C.) and 56.12% at Chakdaha. Even where the party candidate lost, his influence on the electorate was considerable. Thus, at Kaliganj and Nakasipara where the party's candidates lost the elections, they secured the second place on the voting list polling 48.16% and 44.33% votes respectively.

The Progressive Muslim League showed some hold in Chapra where its candidate secured 18.13% votes, but the two other candates of the party, one at Krishnanagar West and another at Nakasipara, secured 4.62% and 1.89% respectively.

Of the other candidates returned from the district was one belonging to the SSP. The candidate, who was the only one the party set up from any constituency in the district, won from Krishnanagar East polling 58.07% votes.

The Revolutionary Communist Party of India set up one candidate at Shantipur who won with 47.49% votes. A dissident

group of the Party, the Tagore group, set up one candidate at Chakdaha and another at Haringhata. But both of them failed to secure even one per cent of the votes cast.

Parties like the Indian National Democratic Front, the Proutists and the Lok Dal set up candidates at different constituencies. But the results of the polls showed that the hold of the parties on the electorate was nowhere of any significance.

It may be mentioned that at Haringhata an Independent candidate, who was supported by the United Front of Leftist Parties, won the seat securing 55.02% of votes. His rival, a Congress nominee, polled 44.58%.

Following the dissolution of the Lok Sabha, mid-term elections were held for the Parliamentary seats all over the country. In West Bengal, elections were held on 10 March 1971 for the Parliamentary seats. Simultaneously, second mid-term elections were held for the Vidhan Sabha which was dissolved a year earlier. In these elections in the Nadia district the Communist Party of India (Marxist) registered further gains securing as many as 9 out of the 14 seats.

Of the 5 remaining seats only one went to Congress (Requisitionists) one to the Samyukta Socialist Party, one to the Revolutionary Communist Party of India and two to Independents.

The influence these political parties had on the electorate may be gauged from the following details.

The CPI (M) candidate won the Karimpur constituency with 47.64%, Tehatta with 46.49%, Chapra with 41.08%, Navadwip with 55.52%, Krishnanagar West with 50.78%, Haringhata with 48.61%, Chakdaha with 50.90%, Ranaghat East with 37.60% and Ranaghat West with 48.94% of the votes. Besides these nine, the party set up three candidates, two of whom secured the second higher number of votes, one at Hanskhali, a constituency reserved for Scheduled Castes polling 35.82% votes, and the other at Krishnanagar East polling 31.74%. At Nakasipara where the CPI (M) candidate came third in order of voting secured 20.03% votes.

The Congress (R) set up candidates in 11 constituencies. Though the party won only one seat, its hold on the electorate in the other constituencies may be seen from the following analysis.

The Congress (R) candidate won the Hanskhali (S.C.) seat polling 45.47% votes. The percentage of votes polled by the party at the other constituencies is as follows.

Mid-term Elections

Karimpur 23.60%, Tehatta 21.41%, Navadwip 18.71%, Haringhata 44.10%, Krishnanagar West 26.04%, Ranaghat West 46.99%, Ranaghat East 32.95%, Shantipur 39.07%, Chapra 16.84%, Hanskhali 35.82%, Nakasipara 20.69%, Kaliganj 13.01% and Shantipur 39.72%.

It will appear from the above that the hold of the Congress (R) on the electorate was the greatest in Ranaghat West where the party polled 46.99% as against 48.94% secured by the winning CPI (M) candidate, at Haringhata the party polled 44.10%. The party candidate gave the winning RCPI candidate a tough fight, the difference in the percentage of the votes polled by the candidates being less than 0.70. The Samyukta Socialist Party won the Krishnanagar East seat polling 48.87% votes. It was the only seat contested by the party. The Shantipur seat went to an RCPI candidate who defeated his Congress (R) rival by a narrow margin in a multi-cornered contest. A second candidate set up by the RCPI (rival group) from the same constituency polled 8.84%.

The Congress (Organization) Party which set up candidates in as many as 12 constituencies, generally fared miserably. Only in four constituencies its nominees polled more than 10% of the votes polled. The highest influence the party showed in any constituency was Navadwip where its candidate polled 22.04% votes while the Congress (R) candidate secured 18.71%. In constituencies other than the four mentioned above, the votes polled by the Congress (O) never rose much above 5% of the votes cast.

The Bangla Congress set up 9 candidates in 9 constituencies but failed to win a seat. Its influence, however, showed unevenly ranging from 28.76% at Chakdaha to less than one per cent at Navadwip and Ranaghat (West). The party's candidate polled 17.70% votes at Chapra, 16.02% at Nakasipara, 8.79% at Hanskhali, 5.76% at Karimpur, 5.46% at Tehatta and 3.69% at Krishnanagar (West). The Forward Bloc and the RSP set up one candidate each at Haringhata and Ranaghat (West) respectively. They polled respectively 6.51% and 2.78% of votes.

The Muslim League contested elections at six constituencies, namely, Kaliganj, Karimpur, Krishnanagar West, Tehatta, Chapra and Navadwip. At Kaliganj, Tehatta, Karimpur and Chapra its candidates polled 22.80%. 21.41%, 20.44% and 18.80% votes respectively. At Krishnanagar West, the party nominee polled 5.59%. At Navadwip the party's influence was negligible.

The CPI set up 6 candidates. The Party's influence showed its highest at Ranaghat East where its nominee came second on the voting list, polling 28.93% votes, its rival the winning CPI (M) candidate securing 37.60%. At other places, its voting record ranged from 5.68% at Kaliganj to 11.14% at Krishnanagar West.

At these mid-term elections of March 1971, two members of Lok Sabha were elected from the two constituencies of the district, one of which was reserved for a Scheduled Caste candidate. At both the constituencies, the CPI (M) candidates were victorious. At Krishnanagar the CPI (M) nominee polled 36.96% of the votes polled. At Navadwip the party's candidate polled 46.87%.

The Congress (R) came next to the CPI (M) in its influence on the electorate. At Navadwip its nominee secured 44.06% and at Krishnanagar 26.93%.

The Bangla Congress and the Congress (O) also set up candidates at both the constituencies. The Bangla Congress candidate secured 9.21% votes at Krishnanagar and 3.71% at Navadwip. The Congress (O) candidates secured 1.18% votes at Krishnanagar and 5.34% at Navadwip.

The Fifth General Elections of 1972 for Vidhan Sabha seats was a keenly contested election in the 14 constituencies of the district. The Congress won as many as 12 seats, the remaining 2 being won by the CPI. The table in Appendix A would show the number of votes polled by different parties from each constituency in the said election.

The sixth Lok Sabha Election was held on 16 March 1977. The poll results in the district were as follows.

Fifth General Elections (Vidhan Sabha) 1972

Lok Sabha

Lok Sabha Election 1977

LOK SABHA ELECTION FROM NADIA DISTRICT: 19771

Name of constituency	Parties contesting	Party winn- ing	No. of Voters	Votes secured by the winn- ing candidate
Krishnanagar	CPI(M), Congress, Independents	CPI(M)	5,34,845	1,98,830

Source: Government of West Bengal, Information & Public Relations Department — West Bengal, Vol. XX, Nos. 9112 p. 129.

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(Contd.)

Navadwip (SC) CPI(M), CPI, CPI(M) 6,35,456 1,93,714 Independents

(3)

Legislative Assembly Election 1977 Newspapers The election to the West Bengal Assembly was held on 14 June 1977 and the election results are given in Appendix B.

No daily newspapers are published in the district. The daily newspapers of Calcutta like the Amrita Bazar Patrika, the Ananda Bazar Patrika, the Basumati, the Hindusthan Standard, the Jugantar, the Kalantar and the Statesman, together with the weeklies Desh and Amrita are in common circulation in the district. A list in the Appendix C shows the names of the periodicals published from the district which are still continuing.

ADVANCEMENT OF BACKWARD CLASSES AND TRIBES According to the 1961 Census, 20.44% of the total population of the district (3.50 lakhs) belong to the Scheduled Castes and 1.28% (21.9 thousand) to the Scheduled tribes. They live scattered throughout the district, the main concentration being at Ranaghat, Chakdaha and Hanskhali.

Various schemes * have been drawn up and worked upon for the development of these Scheduled castes and Scheduled tribes. These are in the spheres of education, cooperative housing, water-supply, agriculture and small industry. The work done during recent years is detailed below.

The problem of lack of education among the Scheduled castes and tribes of the district has been tackled from many angles. Attention has been given to the spread of education at all levels, from the primary to the collegiate. Buildings have been constructed for 7 primary schools, where majority of students belong to the Scheduled castes and Scheduled tribes. These are mostly situated in the remote areas of the district. Their names are given below. The class of people benefiting most out of them is mentioned in brackets.

- (1) Ramdulalpur Primary School (Scheduled Castes). P.S. Hanskhali.
- (2) Bejpara Primary School (Scheduled Castes), P.S. Nakasipara.
- Nicherpara Primary School (Scheduled Castes),
 P.S. Kotwali.
- (4) Udamdanga Primary School (Scheduled Castes), P.S. Nakasipara.

^{*} Unless otherwise stated figures in this section are as they stood on 18th December 1971. Source: District Magistrate, Nadia.

- (5) Nafarchandrapur Primary School (Scheduled tribes), P.S. Tehatta.
- (6) Beharia Primary School (Scheduled tribes).
 P.S. Haringhata.
- (7) Teghoria Primary School (Scheduled tribes), P.S. Kotwali.

Students belonging to the Scheduled castes and Scheduled tribes are provided with stipends in the form of tuition fees and hostel charges. Every year 1,196 students of the Scheduled castes and 244 students of the Scheduled tribes on an average reading in 178 Secondary schools (both for boys and girls) are awarded stipends. Examination fees are granted to those appearing in the School Final and Higher Secondary examinations. Students residing in hostels approved by the Education Department of the State Government are awarded money towards meeting their hostel charges.

Grants for the construction of three hostels have been made over to the school authorities for the accommodation of 60 students belonging to the Scheduled castes and Scheduled tribes. The three hostels are: (i) the Sankar Mission Hostel, Krishnanagar, (ii) Hanskhali High School Hostel, and (iii) Rajar Math High School (under construction), Chakdaha P.S.

Every year, on an average, 1,097 students belonging to the Scheduled castes and 3 belonging to the Scheduled tribes reading in 16 colleges are awarded 'Post-matric scholarships' which are to cover their tuition fees, examination fees, compulsory charges and maintenance charges. In 1971, 7 students from the Scheduled castes who were in the Post-graduate classes of the Kalyani University, were enjoying the scholarship. Scholarships are awarded every year to students of the Scheduled castes and Scheduled tribes studying in polytechnics and industrial, technical and commercial institutions. For students of lower educational attainment stipends are awarded for taking up training courses in various trades, such as, turners, fitters, electricians, wiremen, welders, smiths, etc. In 1971, as many as 89 students belonging to Scheduled castes and 4 students belonging to the Scheduled tribes were enjoying the stipends.

A tribal Welfare Centre has been set up at Garali village under Haringhata P.S. for promoting the social education of the tribals of the area. Literacy classes are held there for the tribal people.

With a view to improving the economic condition of the people belonging to the Scheduled tribes, 15 cooperative grain-golas have

been formed in the district. The jurisdiction of every grain-gola has been limited to an Anchal Panchayat. The grain-golas have been financed entirely by the Government for purchasing paddy. constructing godown and purchasing shares of the Central Cooperative Bank. Loans in paddy are advanced to the members at a moderate rate of interest which is also re-payable in paddy. The grain-golas can have agricultural loans from the Central Co-operative Bank for their members. The grain-golas are paid subsidy annually for the maintenance of staff, etc. The grain-golas have saved these poor people from the clutches of the exacting village money-lenders. About 1,500 families have already come under the fold of the cooperative grain-golas.

Following is a list of the grain-golas and their location:

Chhoto Jiakur Co-operative Grain-gola and Babla Gobindapur Co-operative Grain-gola in Shantipur P.S., Jatrapur Co-operative Grain-gola, Ektapur Co-operative Grain-gola and Hazaripota Co-operative Grain-gola in Kotwali P.S., Silinda Co-operative Grain-gola, Srirampur Co-operative Grain-gola and Damuria Co-operative Grain-gola in Chakdaha P.S., Garali Co-operative Grain-gola, Chanda Co-operative Grain-gola and Mollabelia Co-operative Grain-gola and Dakshin Dhakuria Co-operative Grain-gola in Ranaghat P.S., Gachha Co-operative Grain-gola in Nakasipara P.S. and Madna Co-operative Grain-gola in Hanskhali P.S.

In rural areas of the district, 135 families belonging to the Scheduled castes and 285 belonging to the Scheduled tribes have been provided with specious mud-houses with proper ventilation facilities. The six municipalities of the district have been provided with grants for construction of 133 quarters to house the town's sweeper-families.

For supply of pure drinking water to the people of the Scheduled castes and the Scheduled tribes, provision has been made for sinking tube-wells in the villages where there are large concentration of these people. In different parts of the district 417 tube-wells have been sunk for the benefit of the Scheduled castes and 278 for the Scheduled tribes. These people are at the same time enjoying supply of pure drinking water under the general development scheme.

In the sphere of agriculture, vested agricultural lands measuring 116.14 acres and 28.15 acres have been settled with 326 Scheduled castes and 67 Scheduled tribes families respectively. They have been provided with bullocks, help for land reclamation

and minor irrigation facilities. Bullocks have been distributed to 184 families of Scheduled castes and 63 families of Scheduled tribes. Ninety-one Scheduled tribe families have been provided with land reclamation grants and 150 tribal families have been given house-sites free of cost. Under minor irrigation schemes 18 tribal families have been provided with shallow tube-wells and one tank has been excavated.

A training-cum-production centre has been opened for imparting industrial training (one year course) to 10 boys of the Scheduled castes every year. The centre has produced 64 skilled artisans. Provision has been made for grant to artisans in selected trades. 32 boys of the Scheduled castes and 5 tribal boys have received such grants.

Although alienation of land belonging to the tribals has been restricted under chapter IIA of the West Bengal Land Reforms Act, there is a tendency among prosperous people to grab their lands under various pleas. The tribals are ordinarily not allowed to transfer lands. Permission for transfer of land is given by the Collector of the district in special cases only. In 1971, 89 persons belonging to the Scheduled tribes applied for permission to transfer lands. 58 of them were refused permission. In the three year ending with 1971, 17.14 acres of agricultural lands, transferred to non-tribals, have been restored to the tribal transferors.

Trust funds

The names of three trust funds in operation in Nadia district have been obtained from the District Magistrate. A brief description of these is given below.

- 1. Atal Behari Mitra Trust—the trust fund is administered by the trust fund committee named Atal Behari Mitra Trust Fund Committee, Shantipur. Stipends are awarded to suitable candidates every year from the fund. Cash doles are awarded to destitutes and helpless widows, other females and orphans out of it. The District Magistrate of Nadia is the President and the Chairman, Shantipur Municipality is the Secretary of the trust fund.
- 2. Sitanath Choudhury Trust Fund—the District Magistrate is the Administrator of the trust which is utilized for the upkeep of beds in the female ward of the Garrett Hospital and Dispensary at Navadwip.
- 3. Jogendra Memorial Fund the District Magistrate is the Administrator. The interest of the funds invested is utilised for

awarding stipends to the deserving students of the Muragachha Higher Secondary School.

LABOUR WELFARE

Two Labour Welfare Centres in the district, one at Palashi and the other at Kalyani, are among those administered by the Labour Directorate of the State Government as Government institutions. The Centre in Kalyani is one of the Model Welfare Centres completed under the Five Year Plan Development schemes. These welfare centres hold primary education classes for workers' children and work for adult literacy. Each Labour Welfare Centre has a small library where selected books, newspapers and periodicals are supplied. Group discussions on subjects relating to labour welfare, economic plans and projects. family planning and other current affairs of national interest are arranged from time to time.

Recreation is provided through the radio set provided by the Government. Periodical Cinema shows are arranged with the help of the State Government Information and Public Relations Department and the Field Publicity unit of the Government of India. The Republic Day, the Independence Day, Netaji's Birthday, etc. are celebrated by the welfare centres. The centres have facilities for indoor and outdoor games and competitions, and tournaments are arranged.

Training in knitting, tailoring, embroidery, etc. for women members are provided in the Labour Welfare Centres. In addition to these, provision has been made in the Model Welfare Centre to impart training in basket-making, rope-making, etc. by trained instructors.

PROHIBITION

The State Government has taken no steps so far to enforce prohibition anywhere in West Bengal.

VOLUNTARY SOCIAL SERVICE ORGANIZATIONS Chronologically, the earliest Social Service Organizations in the district were Christian Missions. Nadia has been an important field for the activities of these missions. Both the Anglican and the Roman Catholic Churches were active.

Two schools were opened, one at Krishnanagar and another at Navadwip in 1832. In the next few years, more schools were established and by 1843, free boarding schools had been started in which 42 boys and 22 girls were being fed and taught.

In 1864, a Training or Normal School, which had first been established at Solo, then transferred to Kapasdanga, then located for a time at Shantipur, was finally transferred to Krishnanagar.

Mention may also be made of the Ranaghat Medical Mission which the CMS took over in 1906 and helped thousands of sick people to obtain medical treatment at its dispensaries.

The Roman Catholic Mission started their philanthropic activities at Krishnanagar in 1846 when Father Thomas Zubiburn, a priest of the Carmelite Order of Spain erected the first little church at Krishnanagar on the site of the present Cathedral and Bishop's House. It was blessed on 26th January 1846 by Archbishop Patrick Joseph Carew. The present Cathedral Church was built in 1898.

The Mission opened many educational institutions including High and Higher Secondary schools for boys and girls. opened an orphanage. The missionaries are helped in their philanthropic activities by associations like the Catholic Association of Krishnanagar, the Catholic Teacher's Guild, the Legion of Mary, the Yuva Samaj and the pupils of Don Bosco. The mission's activities includes looking after orphans and destitutes, attending to the sick in hospitals and feeding the hungry.

The Ashram¹ was opened in February 1957 by Swami Visuddhananda of Belur Math. The main object of the organization is to promote the study of Vedanta and its principles as propounded by Śrī Rāmakrishna Paramahamsa and illustrated in his own life. The organization's activities include running of a library, a nursery school and a Junior Basic school. It is a registered body.

The Ramakrishna Library² was established in Nagendranagar in Krishnanagar town in 1943. Apart from its library, the organization runs a night school in the local Harijan Colony. carries on promotion of adult literacy, sanitation temperence, distribution of milk, attending to the sick and distribution of cloths to the needy. The night school has its lown building. The organization's activities include publishing a magazine and holding cultural discussions.

The Sankar Mission³, named after Sankar Srī Rādhā Raman Deva, was established in 1947 with the object of spiritual and social service. Dedicated to the ideal of Swāmi Vivekānanda and Mahatma Gandhi, the Mission is engaged in social and humanitarian service among the downtrodden.

śri Rāmakrishna Aśram

Ramakrishna Library

Sankar Mission

The Roman Catholic Mission

¹ Swaranee: Centenary Souvenir, published by Krishnanagar Municipality, 1964, p. 180.

Ibid., p. 174.
 Source: District Magistrate, Nadia.

Loka Seva Sibir, Bara Andulia

Bhāgirathi Silpāsram, Simurāli

Prajnānānanda Sevā Kendra, Barajguli

Mahila Silpa Vidyalaya, Krishnanagar

Bangavāņī, Navadwip Loka Seva Sibir, Bara Andulia, was established by Bijoylal Chatterjee, a well known poet and social worker, with the object of promoting basic education and rendering social service. The following institutions have been started on the initiative and under the supervision of Loka Seva Sibir: (i) Junior Basic Training College, (ii) Basic High School for boys and girls, (iii) Nursery School and (iv) Ramakrishna Area Rural Library.

Bhāgirathi Silpāsram, Simurāli, is a registered philanthropic society which started a children's home at Simurāli in the Nadia district with 180 orphan children who had been left destitute during the famine of 1943. It was founded by Col. D. N. Bhattacharya. The object of the Asram is not only to rear up orphan children but to rehabilitate them properly in society. Boys and girls here receive school education up to Class V standard and are given various kinds of vocational training like sericulture, weaving, tailoring, carpentry, blacksmith's work, cane-and bamboo-work and agriculture. On completion of the training, the boys are placed in suitable jobs. The girls are given in marriage on attainment of the age of 18.

The Prajnānānanda Sevā Kendra, named after the famous social and political worker of Barisāl, Swāmī Prajnānānanda Sarasvati, was formally opened at Barajaguli in Nadia on May 3, 1953, by Dr. B. C. Roy. The object of the organization is village uplift through social work.

The Sangha has organized one Junior Basic Training College, one nursery school, one girls' school, one community centre for recreational activities, an adult literacy centre and an area rural library.

Krishnanagar Mahilā Silpa Vidyālaya established in 1944 was converted into a registered cooperative society in 1948 under the name Krishnanagar Mahila Silpa Vidyalaya Sarbārtha Sādhak Samabāy Samiti. The institution renders useful service to the needy and helpless women and girls to earn their living by imparting training in (i) weaving, (ii) embroidery, (iii) wool-craft, (iv) lace making, (v) doll making, (vi) tailoring, and (vii) needle work. The institution prepares trainees for the Lady Brabourne diploma. The products of the trainees are marketed through cooperative societies and wages are paid to the trainees.

Bangavāṇī, Navadwip, was established in 1928 with the object of educating women in order that they may help in the building of the nation. With this end in view, it has divided the system of education to be imparted into 11 divisions, namely,

Sisuvāṇī, Ādyvāṇī, Madhyavāṇī, Tirthavāṇī, Ganavāṇī, Silpavāṇī, Rupavāṇī, Geetavāṇī, Saktivāṇī, Deepavāṇī and Vāṇī tīrtha. The organization runs a Higher Secondary School for girls and gives vocational training to students.

Sivānanda Ārogya Bhavan, sponsored by Sivānanda Samāj Sevā Parishad, is a registered institution. It is recognized by both the Central and the State Governments. It is situated at the confluence of the rivers Bhāgīrathī and Jalangi. In 1961 with the help and cooperation of Paschim Banga Samaj Seva Samiti of Calcutta the trustees of Swarupganj Sivananda Mission started its chest clinic. The mission had been carrying on medical service in the area for some years past. At present there are 12 part-time doctors under the Ārogya Bhavan. The units of the institution include the chest clinic, the pathological clinic, the diagnostic-cum-treatment service centre and family planning centre.

Umāśašī Nārī Silpa Sikshā Mandir, Krishnanagar

Sivänanda

Ārogya Bhayan

Umāśaśī Nārī Silpa Sikshā Mandir is one of the oldest institutions for fostering women's education in the district. This was established in 1930 through the munificence of late Umasasi Chakrabarti as a women's industrial training centre which was later recognized by the Central Social Welfare Board. Now, the industrial section of this institution has three wings; the training centre, the production centre and the diploma course. The institution started a primary school for girls in 1946, which has now grown into a Junior High School.

Krishnanagar Public Library

The Krishnanagar Public Library was established in the middle of the nineteenth century. At a public meeting held at Krishnanagar for the purpose ten thousand rupees were collected. A committee was formed with the then Maharaja of Nadia as President, Ramlochan Ghosh as Secretary, his son Monomohan Ghosh, the renowned Barrister, as Assistant Secretary and the District Magistrate as Treasurer. The Library was housed in its own building. Its collection exceeds 12,000 volumes. It has about 300 members.

Ghurni Subhas Sangha

Ghurni Subhas Sangha which has grown out of the Ghurni Subhas Sena established in 1945. It is a registered body and has its own pucca building with a playground. The Sangha is a non-political social and cultural organization. Its activities include village uplift work by engaging youngmen and children in social welfare. The Sangha also conducts various seasonal games, sports and gymnastics.

Bangiya Purān Parishad Bangiya Purān Parishad, housed in a building of its own at Bejpara, Shantipur grew out of Balak Samaj which was established there in 1316 B.S. The latter aimed at all-round physical and mental development of the juveniles of the area. The new name was adopted in 1323 B.S. The Parishad holds examinations in Indian philosophy and mythology in three stages, namely, $\bar{a}dya$, madhya and anta, and the title conferred on the results of the final examination is called Purānratna for males; and Bhārati for females.



APPENDIX A

NAME OF THE PARTIES WITH THE NO. OF VOTES POLLED: 1972

			,				
Name of constituency	Congress (R)	Congress (O)	Muslim league	RCPI	CPI (M)	Independent	CPI
Karimour	27,557	Į	1.611	Į	16.019	1	1
Tollotte	337 20		644		19 935	ļ	i
Lenatta	CC4:17	[ţ	Į	10,033	[1
Kaliganj	19,074	l	2,976	1	15,757	8,536	1
Nakasipara			-	Sec.			
(Scheduled		22					
Caste)	20,753	ह्य	2,821	A STATE OF THE PARTY OF THE PAR	13,808	361	1
Chapra	27,514	मेव	1,835		13,228	1	ļ
Navadwip	34,745	1,888		I	13,504	1	1
Krishnanagar		भाग यत्ते					
West	25,552	,		1	14,982	ı	1
Krishnanagar							
East	33,847	1	}	{	10,332	472	1
Hanskhali (SC)	33,829	!	ļ	1	15,569	1	1
Shantipur	27,272		-	18,626		-	I
Ranaghat West	37,892	1	I	1	24,215	i	I
Ranaghat							
East (SC)	}	176	İ	1	14,799	1	30,104
Chakdaha	33,144	}	1	{	24,576	i	I
Haringhata	1	1,016	ï	1	22,663	1	30,328

APPENDIX B
ELECTION TO THE WEST BENGAL ASSEMBLY FROM
NADIA DISTRICT: 19771

Ω. (Parties contesting	Party winning	Party No. of winning Voters	Votes secured by the winning candidate	Total valid votes polled	Total rejected votes	Total number of tendered votes
Te de Fi	CPI(M), Congress, Janata, Independents (2), Muslim League	CPI(M)	77,161	23,905	55,134	1,044	10
	CPI (M), Congress, Janata, Independents (5), Muslim League, SUC	CPI(M)	86,934	25,912	59,283	1,164	~
T P T	CPI (M), Congress, Janata, Independents (6), Muslim League	CPI(M)	74,623	17,645	44,256	1,015	ĸ
Aug.	RSP, Congress, Janata, Muslim League	RSP	75,810	21,851	53,088	855	Z
Pi	CPI(M), Congress, Janata	CPI(M)	76,944	33,207	54,920	1,220	S
E E	CPI(M), Congress, Independents (3), Janata	CPI(M)	68,430	23,635	44,260	804	
an Tel	Janata, Congress, CPI(M), Independent	Janata	81,812	20,649	47,906	880	∞
	CPI(M), Congress, Janata, Independents (2), Muslim League	CPI(M)	73,972	26,311	43,839	913	'n

Navadwip		CPI(M), Congress, Janata	CPI(M)	1,03,707	27,818	54,844	1,065	'n
Shantipur		RCPI, Congress, Janata,	RCPI	84,344	28,553	51,244	1,054	က
		Independents (3)						
Hanskhali (SC)	ű	CPI(M), Congress,	CPI(M)	84,223	25,861	57,688	948	9
		Janata, Independent						
Ranaghat East (SC)	ıst (SC)	CPI(M), Congress,	CPI(M)	91,408	28,786	58,768	904	6
		Independents (2), CPI						
Ranaghat West	lest	CPI(M), Congress,	CPI(M)	97,357	33,546	59,198	801	∞
		Janata, Independents (2)		4				
Chakdaha		Independent (supported	Indepen-	1,02,835	32,238	59,131	836	10
		by Left Front),	dent (Sup-		5			
		Congress, Janata, CPI,	ported by		2			
		Independents (2),	Left		33			
		BBCP	Front)		4			
Haringhata		CPI(M), Congress,	CPI(M)	86,977	28,652	57,272	1,028	7
		Janata, CPI						
1 Source: Gov	 vernment	1 Source: Government of West Bengal, Information & Public Relations Department - West Bengal, Assembly Election Num-	. Public Relati	ions Department	t — West 1	Bengal, Assen	ıbly Election Num	
ber	, July 1,	1977; Home (C&E) Department,	and District N Abbr	ict Magistrafe, Nadio Abbreviations :	ré)		
BBCP	Bhi	Bharater Biplabi Communist Party	A	Janata	1	Janata Party		
Congress CPI	Control	Indian National Congress Communist Party of India Communist Party of India (Maryist)	. 4	ŘCPI RSP SUC	<u> </u>	Revolutionary Revolutionary Socialist Unity	Revolutionary Communist Party of India Revolutionary Socialist Party of India Socialist Unity Centre of India	of India India
Cur (m)	<u> </u>	munist tarty of India (Marki	· ·	200	1	Central Circy	Schill of think	

APPENDIX C
PERIODICALS PUBLISHED FROM NADIA DISTRICT: 19731

Bangaratna Krishnanagar 1905 Weekly Nadiāmukur " 1961 " Bidyut " 1959 Fortnightl Nadiāsundar " 1956 Weekly Flash Ranaghat 1959 " Vārtābaha " 1910 " Navadwīpvārtā Navadwip 1962 " Sāgnik Chakdaha 1968 Fortnightl Janatār Mukh Shantipur 1972 " Muktiyug Krishnanagar 1972 "
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Sāgnik Chakdaha 1968 Fortnightly Janatār Mukh Shantipur 1972 ,, Muktiyua Krishnanagar 1973
Janatār Mukh Shantipur 1972 ,, Muktiyug Krishnanagar 1972
Muktivua Krishnanagar 1072
Muktiyug Krishnanagar 1972 "
L RAW MIAR A
Homśikhā " 1952 Monthly
Rabibāsarāt " 1967 "
Nūpur Saktinagar 1971 Quarterly
Anukshyan Krishnanagar — "
Lekhā O Rekhā Shantipur 1957 "
Rūpasī Krishnanagar 1968 Monthly
Manir Khani Navadwip 1971 "
Smaraņikā Phulia 1972 Quarterly
Austric Krishnanagar 1972 Monthly
Goudīya Sri Mayapur 1922 "
Nadia District Sports News Krishnanagar 1968 Fortnightly

¹ Source: Nadiā Jelā Nāgarik Parishad, Nadiā: Swādhīnatār Rajat Jayantī Smārah Grantha, Krishnanagar, 1973, p. 38.

CHAPTER XVI

PLACES OF INTEREST

AMGHATA-GANGABAS (23°25'N. 88°25'E.) — Above 9.6 km. (6 miles) to the west of Krishnanagar lies Amghata, a small village (J.L. No. 57) in the Krishnanagar police station, very near the railway station of the same name the Krishnanagar City-Navadwip Ghat Light Railway. had a population of 2,228 in 1961. In one portion of this village, known as Gangābās, are the ruins of palaces and temples built by Maharaja Krishnachandra of Nadia. The Maharaja in his old age desired to spend the rest of his days at a place near the Ganges and away from the cares of worldly life. Accordingly, he built for himself a palace on the Alakananda bil, an off shoot of the Jalangi a couple of miles to the east of Navadwip, and called it Gangabas (residence on the Ganga). After installing his son Sibchandra as his successor at Krishnanagar, he retired to this place where he erected some temples and made liberal provisions for the worship of the deities set up in them. By and by the reputation of the place drew pilgrims from far and near who came to bathe in the Alakananda, its water being considered holy because of its link with the Bhagirathi. Paush Samkrānti, Bāruni and Daśaharā days were special occasions for the holy bath and worship at the shrines.

It was at Gangabas that Maharaja Krishnachandra died in 1782. After his death the place gradually lost its importance. The stream silted up and the palace crumbled and temples fell into decay. Nothing remains today of the past grandeur of the place save the temples of Hari-Hara and Kāla Bhairav, which alone have stood the ravages of time. The temple of Hari-Hara. which is a flat-roofed structure with two domes was erected in 1698 Saka (A.D. 1776) as the inscription on the temple shows. The inscription states that the temple is built and the advaita (non-dualistic) image of Hari-Hara installed in it along with those of Lakshmi and Umā, by Maharaja Krishnachandra, in order that the misconception of those, who consider siva and Vishņu to be different (godheads) and cherish hostile attitude to either may be dispelled. The Ramapadak, that is, foot print of Rama, which is still to be seen here is said to have been brought from the Chitra Kut Hills.

During the time of Kshitischandra, a late successor to the Maharaja, four small sized cannons were recovered from the ruins of the palace. These are now kept in the Rājbāṭī at Krishnanagar.

ARANGHATA (23°15′ N. 88°37′ E.) — Village (J.L. No. 49) situated in the Ranaghat thana about 6 miles (10 km.) north of Ranaghat. It had a population of 7,769 in 1961. It lies on the Ranaghat-Gede line of the Eastern Railway and has a railway station called after its name. village stands on the river Churni on whose bank is the temple of Jugalkisor, believed to have been constructed in about 1728. The temple contains the images of Krishna and Radha. According to tradition, the former was brought from Brindaban and installed first at Samudragarh (near Navadwip) and later transferred to Aranghata by Ganga Ram Das, the first mahanth of the temple. The image of Radha is said to have been brought from the palace of Maharaja Krishnachandra Rai of Nadia, who made a grant of 125 bighas of rent-free land for the support of the temple. A big fair is held here annually throughout the month of Jyaishtha and is attended by about 5,000 pilgrims. Among the visitors females predominate, owing to the belief that any woman who visits the temple will escape widowhood, or if she be already a widow, will be spared from that fate in the next birth. To the south of the temple there is another, and a more ancient one containing the idol of Gopinath, but this does not possess any special fame or sanctity.

BAGULA (23°22' N. 88°36' E.) — A village (J.L. No. 69) in Hanskhali police station it is 19 km. to the north-east of Ranaghat. It had a population of 4,530 in 1961. It is on the Sealdah-Banpur line of the Eastern Railway. Until Krishnanagar received a direct railway service, it was the nearest railway station to that place with which it is connected by a metalled road 17.6 km. (11 miles) long. It is now of little importance except as a large concentration of displaced population. The place has a college teaching upto the degree standard which was started after Independence. From 1862 onwards, it was for sometime an out-station for the Church Missionary Society.

BAMANPUKUR (23°27'N, 88°24'E.)—A village in Navadwip P.S. in the Sadar subdivision. It is about half a mile to the north of Mayapur. The village contains the grave

of Chaind Kaji who is reported to be a contemporary of Sri Chaitanya. There are large mounds in this village which are called Ballāldhibi, which are said to contain the ruins of King Ballāl Sena's palace. Ballāldhibi is about 400 feet long and 25 to 30 feet high. It is now a protected monument.

BALLALDIGHI (MAYAPUR) (23°28' N. 88°20' E.) — A village (J.L. No. 14) with a population of 2,284 in 1961 it is in Navadwip P.S., about 1½ miles (2.4 km.) north of the Mahesganj Railway Station on the Krishnanagar-Navadwip Ghat Light Railway of the Eastern Railway. Mayapur is claimed by a section of Vaishnavas to be the site where Sri Chaitanyadeva was born. The Chaitanya Gaudīya Math has its head-quarters here. All the buildings here are, however, recent.

BIRNAGAR or ULA (23°15' N. 88°34' E.) — Birnagar is a small municipal town in the Ranaghat police station of the district. It has a population of 10,560 according to the Census 1971. It is about 5 miles (8 km.) from Ranaghat and 13 miles (30.8 km.) from Krishnanagar with both of which town it is connected by the Eastern Railway line going from Sealdah to Lalgola Ghat. The railway connexion exists from 1906 when the Murshidabad Branch of the Eastern Bengal Railway was opened and a railway station set up at Birnagar.

The ancient name of this small town was Ula. The origin of the name is obscure. According to one theory, it is derived from the Persian word Aul or wise men. According to another view, the Ula grasses which grew thick on the char land on which the settlement originally sprang up gave the place its name. The place is mentioned in ancient Bengali literary works. Some of these state that at one time Bhagirathi flowed past this town. The bed of a deep and broad river which has now shifted its course is still in evidence in the marshes known as Dākāter Khāl and Bāromāsi bil. Situated on the east and south of the place, this depression lends ground to the belief that this was the bed of the Ganges while the river washed the sides of the town vears ago. Poet Mukundaram Chakravarti Kavikankan (circa A.D. 1544) in Saka 1466 while narrating in his Chandi the story of Srīmanta Sadāgar's voyage to Ceylon in search of his father stated that the merchant prince anchored his fleet beside Ula and on a Vaisakhi full-moon day worshipped the goddess Ulāichandī, the presiding deity of the place.

The tradition is that as Srīmanta was sailing upto the place, a terrific storm came on. In response to divine inspiration, he called upon *Ulāichandī*, one of the wives of Siva, the destroyer, to help him. She answered his prayer and protected his fleet; whereupon he instituted a special worship of her in the place, which has been carried on to the present day. The *Ulāichandī* festival is celebrated here annually in the month of Vaiśakh, and is attended by 10,000 pilgrims, who it is said, are housed and fed by the residents.

The following account of the place is taken from an article by Rev. J. Long which appeared in the Calcutta Review in 1846: "Not far from Ranaghat is Ula, so called from Uli, a goddess whose festival is held here, when many presents are made to her by thousands of people who came from various parts. There are a thousand family of Brahmans, many temples and rich men living in it. As Guptipara is noted for its monkeys, Halisahar for its drunkards, so is Ula for fools, as one man is said to become fool every year at the mela. The Baroari Puja is celebrated with great pomp; the headmen of the town have passed a bye law that any man, who on this occasion refuses to entertain guests shall be considered infamous and, shall be excluded from society."

There is a cluster of 12 temples in the Bengal hut style called the dwādasmandir in association with a Kali temple. The finest temple in the village is the jore bungla temple of Krishna, built by the Mustafi family in 1694. The facade is decorated with terracotta plaques, now badly worn and damaged by lime wash. Nearby is a Chandīmandap with extensive wood carving on the front pillar and interior roof supports, including many purānic and secular figures. It originally had a sweeping thatched bangla roof, which has now been replaced by tin. There is another terracotta decorated temple (of Vishnu) in Dakshinpara, but this is now in ruins and overgrown with trees.

In Pālitpārā, about a mile north of Birnagar, two brothers Kanailal and Nilmoni Acharyya, invented the famous ornaments for images known as dāker sāj.

CHAKDAHA (23°05' N. 88°31' E.) — A town in the Ranaghat subdivision on the Sealdah-Ranaghat section of the Eastern Railway, it is situated not far from the left bank of the Hugli river. It had a population of 46,345 according to the Census 1971. Tradition says that Bhagirath, while bringing

the Ganga from the Himalaya to Gangasagar to water his forefathers' bones, left traces of his chariot wheel (chakra) here; hence the name - Chakradaha corrupted into Chakdaha or In the sixteenth century, when Pratapaditya threw Chakdah. off the Moghul yoke at Mohammedpur in Jessore. Raia Mansingh was detailed by the Emperor Akbar to crush him. On his way Mansingh is said to have passed through the south of the Nadia district. "Hatikanda, a village in Chakdaha police station," savs Pringle in his Survey (1918-26) Report, "contains a banyan tree under which Mansingh is said to have tethered his elephants; and from that tradition the village derived its name. Traces of a road exist in Haringhata police station said to have been constructed for the passage of Mansingh's army." It is believed that at Chakdaha on its way to Jessore Mansingh's army was weatherbound for some days.

Stavorinus in 1785 writes: "The village of Chagda which gives its name to the channel stands like a little island, and there is a great weekly market or bazar here: the channel terminates about three Dutch miles inland, and on its right has many woods in which are tigers and wild beasts; on entering the woods a little way, we soon met with the traces of tigers in plenty, and therefore we met in the Way the remains of a Bengali who had been torn in pieces by a beast of prey."

Chakdaha, as well as Bansberia and Gangasagar, was once notorious for human sacrifices by drowning. In Hamilton's Description of Hindoostan (London, 1820) it is stated that "this town was formerly noted for voluntary drownings by the Hindoos, which, however, latterly have become a mere ceremony of immersion without any fatal result."

Chakdaha used to be an important trade centre, but a change in the course of the river affected it adversely. The main public buildings in the town are the Municipal office, the dispensary and the hospital, and the office of the Sub-registrar. The town was constituted a municipality in 1886 with 12 commissioners, all of whom were nominated. Places around Chakdaha contain monuments and mounds of archaeological interest. But much of these is overgrown with jungles and inaccessible even today. In his Survey Report mentioned earlier, Pringle says "Its association with the long-established house of Nadia has provided the central and southern parts of the district with...interesting remains. Srinagar on the extreme south-east corner of Chakdaha police station was one of these. It is now so dense a jungle

Srinagar

that no one readily musters up courage to penetrate therein. At the time of the survey (1918-26) a specially stout-hearted upcountry *Amin* had to be employed."

Jasra

Jasra, one mile west of Chakdaha railway station, contains the *Sripāt* of the famous Vaishņava Jagadīś Paṇḍit, and a temple called Jagannāthadeva temple. Jagadīś Paṇḍit consecrated the image of this temple.

Känthälpuli

Kānṭhālpuli, about half a mile north-west of Chakdaha railway station contains the $Sr\bar{\imath}p\bar{a}t$ and altar of Maheś Paṇḍit, one of the twelve Gopāls of the Vaishṇava Sect. Maheś Paṇḍit was the brother of Jagadīś Paṇḍit. A large $mel\bar{a}$ is held to commemorate the death of Maheś Paṇḍit on the 13th day of the new moon period of the month of Agrahayana.

Palpara

Palpara, about 2 miles (3.2 km.) from Chakdaha railway station, contains an early brick-temple of the *chārchālā* type, more massive than is usual with this design. The temple was rescued from the jungle and protected by the Archaeological Survey of India in 1920, but is again falling to ruin. Terracotta plaques above the entrance depict the Battle of Lankā in lively 17th century style.

Kamalpur

In Bhattacharya-Kamalpur, a village near Chakdaha town which was once a renowned seat of learning, the ruins of an ancient Siva temple stands in the midst of a thick overgrowth. The temple is of the chārchālā type and has terracotta work on its facade with beautiful mithuna designs. It is surmised from relevant documents that this and another Siva temple at this place were built at the time of the famous pandit Raghudeva Vidyāvinoda.

CHAPRA (23°23' N. 88°32' E.) — Situated about 10 miles (16.0 km.) north of Krishnanagar, this village (J.L. No. 39) is the head-quarters of the Chapra police station. It had a population of 1,35,634 in 1971. It has been the centre of work of the Church Missionary Society for well over 100 years. In 1840, mission houses were built at Chapra and in the following year a church was built at this place. A school was started in 1850 which was raised to the Middle-English standard and continued to be a useful institution for a long time. There is a public hall here erected in 1957 with an accommodation for 150 persons which is managed by a local body and is free for public use. Near Chapra

on the bank of the Jalangi is the village of Bangaljhi which was once an important river mart and where there is still a certain amount of local trade.

DEBAGRAM (23°40′ N. 88°16′ E.) — A village (J.L. No. 60) in Kaliganj P.S. of the Sadar subdivision, about 87 miles (139.2 km.) from Calcutta on the Ranaghat-Lalgola branch of the Eastern Railway. It had a population of 8,439 in 1961. Ruins and high mounds can be seen in the village, which many historians believe are the remains of the cantonment of the Sena Kings of Bengal.

DEBAGRAM (23°10′N. 88°44′E.) — A village (J.L. No. 105) with a population of 2,003 in 1961 it is in Ranaghat P.S. about 2½ miles (4 km.) north-east of Gangnapur on the Ranaghat-Bongaon section of the Eastern Railway. There is a large mound in the village, popularly known as *Deganr Dhibi*. This mound is said to cover the ruins of an ancient fort supposed to be the seat of a *Kumbhakār* Chieftain called Devapāl or Depāl.

According to local tradition, Raja Devapal was one of the Bengal chieftains who raised their standard of revolt against Delhi during the reign of Emperor Jehangir. He is said to have met with a tragic end as a wrong signal, which meant that he had lost the fight, had escaped him by mischance while he was coming back from the battle-field, victorious over his enemy. He hurried back home only to find that his Rāṇīs had, on receiving the signal, drowned themselves in the tank adjoining the fort. In desparation the Raja too put an end to his life by drowning himself.

DIGNAGAR (23°17′ N. 88°28′ E.) — Six miles from Krishnanagar and in Krishnanagar police station on the railway to Shantipur lies Dignagar. The village (J.L. No. 83) contains a large tank excavated by Raja Rāghav, great grandfather of Maharaja Krishnachandra of Nadia. Near a tank within the village stands the temple of Rāghaveśvara śiva consecrated in 1669. It is a chārchālā structure, richly decorated with terracotta plaques on both east and south facades, including interesting social scenes along the base. Beside it, stands another temple in a dilapidated condition.

¹ Kumudnath Mullick, Nadiā Kāhinī, 1910, p. 26. Raja Devapāl or Depāl is mentioned in Bharatchandra's Annadāmangal as the Ruler of Depān.

GHOSHPARA (Dakshin Ghoshpara) (22°59' N. 88°27' E.) — A village in Kalyani P.S. of Ranaghat subdivision, about 5 miles (8 km.) north-west of Kanchrapara railway station on the Eastern Railway. Also known as Nityadhan, this village is the seat of the Kartābhajā sect. Festivals are held at Ghoshpara on Dol Yātrā in the month of Phālgun; at the Rath Yātrā in the following month: on the anniversary of the death of Ramdulal or Dulal Chand, the son of the original founder of the sect in the month of Chaitra; on the anniversary of the death of the founder in the month of Ashadh; and on the anniversary of the founder's wife's death in Aświn. The places visited by the pilgrims are the room where the founder's wife was buried and the rooms containing the relics of the founder and his son. In each of the places, prayers are offered daily. There are two tanks named Dālimtalā and Himsāgar, which are also places of interest for the pilgrims.

HARINGHATA (22°30' N. 88°34' E.) — It is the southernmost police station of the district with an area of 65.0 sq. miles (168.4 sq. km.) and a population, according to the Census of 1971 of 95,583 persons. The area is entirely rural and contains 89 villages. The State Government's Livestock Research-cum-Breeding Station at Haringhata is growing into a small town with the establishment of the farm itself. At this place is situated the office of the River Research Institute. Bidhan Chandra Krishi Viswa Vidyalaya is also located here.

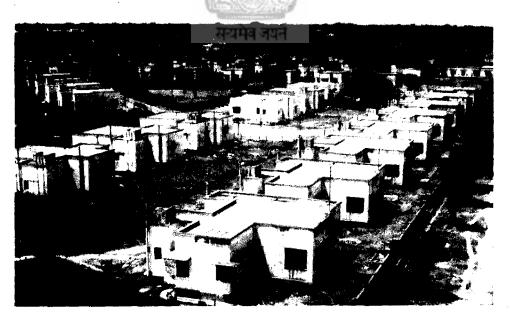
KALYANI (22°59' N. 88°27' E.) — A model township in the police station of the same name built by the West Bengal Government about 30 miles (48 km.) from Calcutta. It has a railway station connecting it with Calcutta and Ranaghat on the Sealdah-Ranaghat section of the Eastern Railway.

Kalyani has been declared a Notified Area by the State Government and has a population of 18,310 according to the Census 1971. It has all the modern amenities of a modern town including piped water-supply, sewerage and electricity.

The total area acquired for the Kalyani township was 9,480 acres. The area was divided originally into six blocks, namely A, B, C, D, E & F together with areas reserved as green belt on the periphery of the same. Blocks A, B, C & D are on the western side of the railway line running from Sealdah to Ranaghat and the Blocks E & F are on the eastern side.



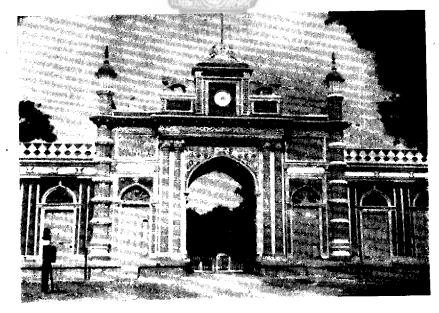
1. Picnic Garden, Kalyani.



2. Kalyani township.



Obelisk in memory of the Battle of Plassey (23 June 1757) at Palāsi.



2. Main gate of Rājbāḍi at Krishnanagar.



1. Topkhānā mosque, Shantipur.



2. Roman Catholic Church, Krishnanagar.

A tulsimancha in the family temple of Krishnanagar Rāj.

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In 1950, the foundation stone of the township was laid by the then Governor Dr. K. N. Katju. It was originally intended that Block 'D' should be earmarked for industries and the other areas developed for residential purposes. Initially, Block 'B' was taken up for development. It contained 5,688 residential and commercial plots and 45 parks. Land was allocated for markets, schools, health centres and other social service units. Development of the Block was completed during the Second Five Year Plan.

In Block 'B', an administrative building has been constructed at a cost of about Rs. 4 lakhs. Various offices from Calcutta and other places have been shifted there. A higher secondary school for girls and boys has been built and is functioning. A market with 52 shop-rooms and open platform for fish and vegetable stalls has been started. The development of 'A' Block has been taken up and plots are being allocated. Two hospital buildings have been constructed in this Block by the State Health Department.

It was decided in 1954 to restrict the township area to four Blocks on the western side of the railway line.

The area on the eastern side of the railway line has been transferred to Government Departments, such as, Home (Defence), Public Health, Relief and Rehabilitation, Agriculture, and Animal Husbandry.

The industries developed in Block 'D' include, among others, the Kalyani Spinning Mills, run by the State Government. An Industrial Estate sponsored by the West Bengal Government has been set up where a large number of small-scale industrial units are in operation.

A University has been set up at Kalyani. It is a residential university complete with hostels and lecture halls and having courses in Agriculture, Humanities and Science. A Teachers' Training College is also functioning here.

Besides these, Kalyani has an Industrial Training Institute, a Block-level Co-operative Officer Training Centre sponsored by the Reserve Bank of India, the Government of West Bengal and the Government of Assam and an Orientation Training Centre for Block Development Officers started by the Ministry of Community Development, Government of India.

Kalyani offers attraction for tourists, specially in winter when its parks and open spaces are crowded with visitors from Calcutta and neighbouring places for picnic and holiday-making.

KULIA (22°58′ N. 88°29′ E.) — A village (J.L. No. 83) with a population of 4,673 in 1961 it is in the Kalyani P.S. of the Ranaghat subdivision, and is about 3 miles (4.80 km.) north-east of Kanchrapara railway station. A fair is held here annually on the 11th day of Paush. It is called the Aparādh Bhañjan melā. It is said that Sri Chaitanya, who was refused hospitality in the neighbouring village of Kanchrapara, came here and was well received by one Debananda. The saint was so much pleased with the treatment which he received that he sanctified the place and declared that all who worshipped there on the 11th day of Paush would be absolved of all sins. There is a temple in the village known as Debānandapāt. It is of comparatively recent date. Adjoining the temple are some tombs, among which one is said to be that of Debananda.

KRISHNANAGAR (23°24'N. 88°31'E.) — Head-quarters of the district, it is on the left bank of the Jalangi, 9 miles (14.5 km.) above its junction with the Bhagirathi. The town covers an area of 6½ sq. miles and has a population, according to the Census of 1971, of 85,923.

Originally named Reui, it was renamed Krishnanagar by Raja Rudra Rai, whose father Raja Raghav Rai built a palace in this place. Since Rudra's time it has remained continuously the residence of the Maharaja of Nadia.

The village Reui is mentioned in the diary of William Hedges who was appointed by the East India Company as the Agent and Governor of their affairs in the Bay of Bengal. Mr. Hedges who went from Hugli to Dacca in the last quarter of 1682, travelled by way of the Jalangi. On October 16, 1682, Mr. Hedges writes in his diary, "Early in the morning we passed by a village called Sinadghur and by 5 O' clock this afternoon we got as far as Rewee, a small village belonging to Wooderay, a Jamadar, that owns the country on that side of the water almost as far as over against Hugly. It is reported by the country people that he pays more than twenty lack of rupees per annum to the king, each for what he possesses - and that about 2 years since he presented a lack of rupees to the Moghul and his favourites to divert his intentions of hunting and hawking in his country for fear of his tenants being raided and plundered by the Emperor's lawless and unruly followers. This is a fine pleasant situation full of great shady trees, most of them, tamarinds, well stored with peacocks and

spotted dear like our fallow dear; we saw 2 of them near the riverside at our first landing."

During the lifetime of Maharaja Krishnachandra, who played a leading part in the social life of the region, Krishnanagar was a centre of learning and culture. Poet Bharatchandra, the author of Annadāmangal, and the poet-saint Rāmprasād were associated with the court of the Nadia Raj. Another legendary figure was the Court-Jester Gopal Bhānr, whose name is fondly remembered by all lovers of humorous anecdotes. In more recent times, Krishnanagar has seen the early life and education of some eminent literary men, to mention a few, D. L. Roy, the noted Bengali dramatist and composer of patriotic songs, and Pramatha Chaudhuri, the editor of the Sabujpatra and celebrated writer and critic. In 1860, Krishnanagar was the head-quarters of a Commissionership. At that time, the district played an important part in the economic life of the province. It was one of the main centres of the indigo industry in Bengal.

The Nadia division with its head-quarters at Krishnanagar was created in 1854 when a rearrangement of the Commissioners' Division was made. For various reasons the Commissioner did not take up his residence at Krishnanagar for more than a year. In 1855, he applied for permission to remain at Alipore, but after correspondence with the Board of Revenue, the Lt. Governor decided that the head-quarters of the division must be at Krishnanagar. In 1860, however, the Murshidabad district having in the meantime been included in the Rajshahi Division, the head-quarters of the Nadia Division was transferred to Alipore.

Krishnanagar is the venue of one of the most famous festivals of West Bengal, the *Bāradol* festival, which is celebrated every year in March or April when twelve idols from twelve different places representing Krishna in twelve different personalities are brought together to the Rajbadi and worshipped. Thousands of pilgrims assemble every year to witness the festival and the fair, the latter lasting for thirty days.

Krishnanagar today has three institutions which have significant bearing on the agricultural development of West Bengal. These are the Horticultural Research Station, the Jute-Seed Multiplication Farm and the Training Centre for the Agricultural Extension Staff at the State Agricultural Farm.

The Horticultural Research Station at Krishnanagar, which is the only institution of its kind in the State, was established in 1934 with financial help from the Indian (then called Imperial)

Council of Agricultural Research for carrying on research in fruit-growing in the plains of Bengal. Krishnanagar was selected as the site for the station as it was on the fruit-growing belt of Bengal and was well-known for the quality of mango, lichee and other fruits grown there.

The main work of the station consists of breeding and selection work to evolve better varieties of fruits and vegetables with high yield, good quality, early and late maturity, resistance to insect pests and diseases, etc; cultural and manurial trials to determine the best cultural methods and manurial practices for different horticultural crops; production of reliable and true-to-type planting materials of fruits and vegetables, such as graft, seeds and seedlings; and advisory work regarding various aspects of fruit and vegetable culture in the State.

The Jute-Seed Multiplication Farm, which has been established in Krishnanagar, covers an area of 250 acres of land adjoining the State Horticulture Research Station. The land was taken over by the Directorate of Agriculture in 1951. Its reclamation is complete and land has been put under cultivation.

The main work of the farm is the production of jute seed of high-yielding varieties. But advantage of crop-rotation is being taken for the production of seeds of recommended varieties of food crops, such as, paddy, wheat, pulses, oilseeds, etc.

The State Agricultural Farm at Krishnanagar has an area of 300 acres of land and contains the State Horticulture Research Station. It is equipped with tractors and mechanical implements suitable both for large and small-scale agriculture. The area is all high land and is, therefore, suitable for growing various types of crops. Irrigation water is available from tanks and tube-wells.

Krishnanagar is famous for its traditional craft of clay modelling. The modellers live in a suburb of the town called Ghurni, where they ply their craft. The craft is said to have received the patronage of Maharaja Krishnachandra of Nadia, the Rajas of Lalgola, Nashipur and Cossimbazar.

At present, about 175 clay-modellers are engaged in the ghurni area. All the existing establishments are proprietory in character working independently, mostly with labour of the members of the family and occasionally with hired labour. The products of these craftsmen are distinguished by their true-to-life representation and masterly treatment of details. The fame of their work

reached the distant shores of Europe and it is on record that Krishnanagar clay-models were displayed in the exhibitions of England and France years ago.

Krishnanagar has few temples or buildings of archaelogical interest. The temple of Ānandamoyī consists of a low flat-roofed chamber and a verandah, surmounted by a *chārchālā* upper storey. It contains a magnificent clay image of Kali with the traditional flamboyant head-dress.

The extensive buildings of the $R\bar{a}jb\bar{a}di$ includes a large $Durg\bar{a}-d\bar{a}l\bar{a}n$ with typical 19th century stucco decoration.

NAVADWIP (23°24'N. 88°23'E.)—The town from which the district derives its name lies on the west bank of the Bhagirathi, opposite to the confluence of the Jalangi with that river. It covers an area of $4\frac{1}{2}$ sq. miles and has a population of 94,204 according to the 1971 Census.

There are three different traditions as to the origin of the name Navadwip; the first is that the town originally stood on an island, which was called Navadwip (i.e. new island), to distinguish it from Agradwip (former island) which lies about 15 miles (24 km.) up the Bhagirathi from Navadwip; the second is that it was formerly the resort of a recluse who use to practise his religious rites at night surrounded by nine lights, whence it came to be called Navadip or Nine Lights, but this derivation, as will be observed, does not account for the letter 'W' in the last syllable; and lastly, that it formed one of a group of nine islands (Navadwip), an account of which is given by Narahari Das in his Navadwip Parikramā Paddhati.

Navadwip stands on the Bandel-Barharwa loop line of the Eastern Railway. A narrow gauge railway line from the opposite bank of the Bhagirathi connects Navadwip Ghat with Krishnanagar City Station on the Lalgola-Ranaghat Section of the Eastern Railway. Ferry boats ply across the Bhagirathi between Navadwip and Navadwip Ghat.

Navadwip is a city with an ancient tradition. According to tradition, it is said to have been founded by one of the Sena kings of Bengal, who took up his residence at a place on the sacred Bhagirathi. On the east bank of the river, immediately opposite to the present Navadwip, is the village of Bamanpukur, where the king Ballalsena used to reside. A large mound known as Ballāl Dhibi said to contain the remains of the King's palace and a tank called Ballāl Dighi still carry the Sena king's tradition.

Historical evidence indicates that this place was the resort of the Sena kings till the Afghan conquest of Bengal.

For many centuries, Navadwip has been famous as a seat of The patronage of the Hindu kings and the sanctity attached to the place brought scholars from far and near. The place abounded in seminaries where teachers of countrywide fame used to impart lessons in philosophy, nyāya, grammar, etc. to scholars drawn from different parts of the land. The names of Halayudha, Pasupati, Sūlapani and Udayanacharya may be They are said to be contempomentioned in this connexion. raries of Lakshmana sena. Abdhihodha Yogi, a pandit from the upper country, is said to have been the first scholar to set up a school of logic in Navadwip. The most celebrated native savants of the place were Basudeva Sarvabhauma and his distinguished pupils. Of these, mention may be made of Raghunāth Siromoni, the author of the Didhiti and the commentary on the Gautama Sūtra; Raghunandan Smarta Bhattacharyya, the most renowned pandit on smriti, whose school is followed even today in West Bengal; Krishnananda Agambagis, whose work on tantra is the standard book on the subject. But the most outstanding personality was Sri Chaitanya who became the famous apostle of the Vaishnava cult. Sri Chaitanya, the son of Sri Jagannath Miśra, was born in A.D. 1485.1

Navadwip still continues to be famous for its Sanskrit teaching. The indigenous Sanskrit schools known as tôls in which smriti and nyāya are taught form the principal feature of the town. A report submitted by Prof. E. B. Cowell in 1867 contains a full account of the schools.

Sir William Hunter remarks: "The past of Nadia raises very high expectations, but its present state is disappointing. It is not an ancient city with venerable ruins, crowds of temples, a great population and time-honoured tols in every street, with numbers of learned pandits, such as one might expect from its antiquity. All that meets the eye is a small rural town with little cluster of habitations, and a community of Brahmans, busied with earning their bread rather than in acquiring a profitless learning. The caprices and changes of the river have not left a trace of old Nadia. The people point to the middle of the stream as the spot where Chaitanya was born. The site of the ancient town is now partly char land and partly forms the bed of the stream which passes to the north of the present town. The Bhagirathi

¹ Vide Chapter II for life of Sri Chaitanya.

once held a westerly course, and old Nadia was on the same side with Krishnanagar, but about the beginning of this (19th) century the stream changed and swept the ancient town away."

The town, being situated on the bank of the Bhagirathi, is frequented by pilgrims from different parts of India, chiefly those of the Vaishṇava Sect, who bathe in the sacred waters, and at the same time pay their homage at the shrine of Sri Chaitanya. Besides Vaishṇava shrines, there are a large number of $S\bar{a}kta$ and Saiva places of worship in the town. In the month of $K\bar{a}rtik$, $r\bar{a}sa$ is celebrated in the Vaishṇava shrines. At the same time Saiva and $S\bar{a}kta$ images of various descriptions are worshipped and immersed with procession. Navadwip was constituted a municipality in 1869 with twelve commissioners, of whom eight were elected and the remainder nominated.

The principal industry of the place at present is the manufacture of brass and bell-metal products. A firm manufacturing clocks and imitation gold ornaments is run on cooperative lines.

PHULIA (23°12'N. 88°29'E.)—A new small town, it is 6 miles (9.6 km.) from Ranaghat and 4 miles (6.4 km.) from Shantipur on the Shantipur-Ranaghat Road. It is in Shantipur police station. Built mainly at the instance of the Government of India to house displaced persons arriving in the district, the town was carefully planned to contain large industrial buildings, a vocational training centre, an agricultural farm, facilities of irrigation, a central pipe-water supply and electricity. The town is well laid out with roads, streets and lanes, including provisions for community recreation centres, hospitals, high schools, primary schools and parks. The population of the town according to 1971 Census is 4.627.

Near the town on the Ranaghat-Tārāpore road stands the birthplace of the poet Krittivās. Here, too, one finds *Haridāser Pāt*, the altar of the famous Vaishnava Yavana Haridās. The altar of Haridās contains some exquisite specimens of carved wooden images.

PALASHI (23°47' N. 88°16' E.) — A village (J.L. No. 4) in Kaliganj police station, it is situated on the east bank of the Bhagirathi. It is famous as the site of Clive's victory over Siraj-uddawla, Nawab of Bengal, on 23rd June 1757. The battle has been referred to in the Chapter on the history of the district. In 1883, the Bengal Government erected on the spot a monument

to commemorate the battle. The inscription upon it consisted of one word 'Plassey'. This was later replaced by an obelisk. The place is 2 miles (3 km.) away from the nearest railway station Palashi on the Lalgola section of the Eastern Railway. A metalled road now runs from the station to the furnished Dak Bungalow there.

RANAGHAT (23°11′ N. 88°34′ E.) — Head-quarters of the subdivision of the same name since 1863, the town stands on the left bank of the river Churni and covers an area of about 3 sq. miles. Its population, according to the Census of 1971, is 47,815. It was constituted a municipality in 1864 with fourteen commissioners, five of whom were appointed ex-officio and the remaining nine nominated by Government.

Ranaghat is an important railway junction on the Eastern Railway. It connects Calcutta with Gede on the Bangladesh border, with Lalgola and with Shantipur. Another branch line leads via Bongaon to the Bangladesh border. Ranaghat carries a large river traffic and is one of the principal seats of commerce in the district.

The Ranaghat Medical Mission was established here by J. Munro in 1893. The head-quarters of this mission has since been moved to a site outside the city limits.

Very little is known of the early history of the town. It is said to have been called Ranighat originally after the Rani of Krishnachandra, Maharaja of Nadia. Pringle, however, in his Survey report says that Rana, a celebrated dacoit of the 18th century, made it his head-quarters, and has given it his name "Ranaghat", says Pringle "is not a new town.... It is shown in Rennell's map." The town is the seat of the Pal Chaudhuri family of Ranaghat referred to by Bishop Heber, in his journal. Pringle says that a trader called Krishna Panti, whose career synchronized with the establishment of British predominance in Bengal, built his palace there. On the disruption of the Nadia Raj at the Permanent Settlement, he acquired and purchased extensive landed property. The title of Chaudhuri was conferred upon him by Raja Sib Chandra of Nadia. He refused the title of Raja offered to him by the Marquess of Hastings when the latter visited Ranaghat, Litigation protracted from 1821 to 1850

¹ Pringle, Final Report on the Survey and Settlement Operations of District of Nadia, 1918-1926.

in connexion with the disposal of Krishnakanta's property after his death crippled the family fortune. The Pal Chaudhuris of Ranaghat, as his descendants are called, are still held in high esteem. The name of the Pal Chaudhuris is cherished in the High School at Ranaghat bearing the family title. The institution was founded by one of the scions of the family and has been supported mainly by his descendants.

The Poultry Multiplication Centre at Ranaghat was established with the object of making readily available poultry of improved strains (namely, Rhode Island Reds and White Leghorns) and also Khaki Campbell ducks to villagers for propagation of those strains in the rural areas as also for grading up the indigenous stock.

SHANTIPUR (23°15′ N. 88°27′ E.) — A town in the Ranaghat subdivision, it is situated on the left bank of the Hugli. It covers an area of about $9\frac{1}{2}$ sq. miles (17.10 sq. km.) and has a population of 61,166 according to the 1971 Census. The town is equidistant from Ranaghat, the subdivisional head-quarters and Krishnanagar, the district head-quarters and is linked to both the towns by road and railway. The National Highway which leads from Calcutta to Siliguri passes through Ranaghat, Shantipur and Krishnanagar. Shantipur has a broad gauge rail-link with Ranaghat, and a narrow gauge (2'6") railway line runs from this place to Navadwip Ghat via Krishnanagar City Junction. The metalled road between Krishnanagar and Shantipur was originally constructed by Rudra Rai, Raja of Nadia.

Although very little definite information is available about the ancient history of the town, evidence is not lacking to show that Shantipur was a well-known place even eight hundred years ago. It is on record that about 600 years ago Shantipur was a populous and thriving town. About that time Narasimha Nadial, grandfather of Advaitāchārya one of Sri Chaitanya's close associates, came to Shantipur and settled here. Narasimha was a minister of Raja Ganeśa Danujamardanadeva who became independent king of Gauda in about A.D. 1409. The date of his arrival here is placed sometime before 1291 śaka or A.D. 1369 when there arose a violent dispute among the Kulins.

Years ago, it is said, the present site of the town and its surrounding areas were under the waters of the Bhagirathi. The surrounding low lands are even today flooded as the river rises in the rains. Traces of the old river bed are still to be seen on

either side of the Ranaghat-Shantipur ferry-fund road. Broken hulls or other parts of boats unearthed while digging wells and tanks prove that the places were under water in the past. According to Advaitamangala, the Bhagirathi at one time encircled the town on three sides. Rennell's map shows the river flowing at a distance from the town. Subsequently, it was for sometime washing the southern side of the town. For sometime past it is again changing its course and has already receded considerably from the town.

The origin of the name of the town is obscure. Some hold that the name is derived from that of Santamuni, a Vedic scholar, who lived at Babla near Nijhar which lies to the north of the present-day Shantipur. But the view does not stand scrutiny as the name Shantipur was current even before Santamuni's days and its reputation as a prosperous place was already widespread. Santamuni was Advaita's teacher when the latter was about twelve years old and at a liberal computation Santamuni would be fifty years his senior. Now, Advaita was born when his father was eighty years of age and it was his father, Advaita's grandfather, a much older person, who had come to settle in Shantipur, a place already well-known throughout the land.

Shantipur earned its fame as the home of Advaitāchārya, the great Vaishņava savant and a close associate of Sri Chaitanya. During his lifetime, a Qazi, who was posted here, used to carry on administration in the name of Hussain Shah, ruler of Gauḍa. Emperor Akbar granted Khelayat to one Khundkar who lived in Sutragarh, a western suburb of Shantipur. It says, "The area bound by the Ganges on the south, Nijhar on the north, Surugarh on the east and Garfeya on the west is granted to you." How the place passed into the possession of the Nadia Raj is not known.

Holwell was landed at Shantipur as a prisoner on his way to Murshidabad. From thence he was sent in an old fishing boat to Murshidabad.

In Travels in India one hundred years ago (published in London in 1893), its author Thomas Twining, a civil servant of the East India Company, relates how in 1794 he was at Shantipur, "a large and flourishing town of 70,000 inhabitants, situated two miles from the left bank of the Ganges, 60 miles above Calcutta."

At the end of the eighteenth and the beginning of the nineteenth century, Shantipur was the centre of a great and prosperous weaving industry. It was, until 1828, the seat of commercial residency, where £ 1,50,000 worth of cotton cloth was annually

purchased for the European market. From 1813, the industry began to decline, being unable to face the competition of cheaper goods from Manchester, and in 1825, it received a severe shock from the introduction of British mill-made yarn, which was used to the utter extinction of country yarn.

In his revenue survey report of the district (1918-23), Mr. Pringle writes, "Weaving is still the chief industry of Santipur. Its products are noted for its borders. A peculiarity of the conditions under which its weaving is now carried on is that the people occupied therein are drawn from every class. Many Brahmins are weavers."

Garrett in his Nadia District Gazetteer writes, "The only place in which fine Muslin is manufactured is Santipur, the peculiar speciality of this place is known Santipur cloth, and it is admired for its thin texture and embroidered and flowered work. Mr. Banerjee in his monograph on the cotton fabrics of Bengal published in 1898 says that the outturn of the cotton cloth in Santipur was then worth about $3\frac{1}{4}$ lakes of rupees per annum; these figures are correct, there has been a great decline during the last ten years, for the value of the present (1909) outturn is not nearly so much."

Santipur is famous for its designed $\delta \bar{a} dis$ even today. Out of the 5,000 looms in the Shantipur municipal area, about 3,000 looms are (fly-shuttle) Jacquard looms and the rest ordinary fly-shuttle looms. While the Jacquard looms specialize in design $\delta \bar{a} dis$, the others still weave dure (Matha $\delta \bar{a} di$) and ordinary dhoti.

Before the Jacquard looms were introduced about 40-50 years ago by the late Bhupati Charan Pramanick, the weavers used to reproduce designs manually in ordinary shuttle looms as embroidery work. But, now the designs are on punched cards, set on Jacquard machine and the weaver is not necessarily the designer himself. The designs are being evolved as a separate job and the weavers mostly start with the designs converted on punch cards by them. There are, however, weavers who are also designers themselves.

The design weavers of Shantipur have their units concentrated in Sāhāpārā, Dālālpārā, Kuṭhirpārā, Sutragarh and Sarbānandapārā.

The pre-Jacquard loom designs were woven on border and $\bar{a}nchl\bar{a}$. The border designs were 5"-6" in width. The colour was deep black and red. The design was woven with Jari and pure silk. The current speciality of Shantipur $\delta \bar{a} dis$ is also

reflected in the border and $\bar{a}nchl\bar{a}$. As Jacquard looms now permit the reproduction of any kind of design the weavers set their work as the market demands. The borders are of shorter width now and the designs are reproduced on dyed cotton yarn of lighter shades with jari and silk, either pure or artificial.

Another distinctive feature of the Shantipur $s\bar{a}dis$ has been its superb texture on fine cotton yarn.

A variety of fabric named $Kal\bar{a}bali$, woven entirely in jari could be produced by Girish Chandra Pal, a master craftsman of the traditional line. In his days it used to cost Rs. 500/- a piece. Kishorilal Pramanick was reputed for embroidery work on the border with $mug\bar{a}$ silk. It is said that the textiles woven by the traditional craftsman were much in demand in Delhi, Kabul, Iran, Arabia, Turkey, Greece and Italy.

In 1846, Bishop Heber mentioned Shantipur and its rows of brick-built houses. He said that the town was reputed for its Gosvamis, tailors and weavers and referred to a big sugar factory about two miles from the place. This factory, according to his account, employed nearly 700 workers and returned about 500 maunds of sugar daily.

The place was famous for Sanskrit studies. The Bishop reported he saw thirty tôls here.

Among the prominent families of this place the Gosvamis, the Rays, the Chatterjees, the Bhattacharyas have had a long reputation. The Mukherjees and the Maitreyas have also come into prominence.

Among the 'Oriya Gosvamis', there are some who were keen students of the six systems of Indian philosophy. Mentionable names are those of Madhab Chandra Gosvami, Harinarayan Gosvami and Ramchandra Gosvami. The Gosvamis ran a chatushpāṭhī where students were taught philosophy. Atul Chandra Chatterjee, a distinguished member of the Indian Civil Service who rose to be a member of the Secretary of State's Council, came from the Chatterjee family of Shantipur.

Chandra Sekhar Vachaspati and Ramnath Tarkaratna are two paṇḍits who brought fame to Shantipur.

The tale of Shantipur remains incomplete without a mention of the Strong man of Shantipur, Asananda Mukherjee renamed Asananda Dhenki. He was so strong that he once chased away a band of dacoits with a dhenki (husker) and earned the appellation

The Khan Chaudhuris of Shantipur are remembered for the temple of Syamchand, which was built by Ram Gopal Khan Chaudhuri of this family in \$aka 1648 (A.D. 1726) at the reputed cost of two lakhs of rupees. The other temples are that of Gokulchand built about A.D. 1740 and that of Jaleśvar, said to have been built by the mother of Raja Ramkrishna of Nadia, about the beginning of the 18th century. The temple facade is ornamented with terracotta work depicting episodes from the Purānas. Besides these, there is a two-storeyed Pancharatna Kali temple which is noteworthy. Shantipur, which contains Advaita's Pāt is a place of pilgrimage for the Vaishnavas. There are many mosques in the town. The oldest mosque is in Tophkhana; it was erected by one Yar Mohammad in the year 1115 Hijri, during the reign of Emperor Aurangzeb.

Shantipur was constituted a municipality in 1865 with 24 commissioners (of whom 16 were elected and the remainder nominated) and an *ex-officio* Chairman in the person of the Subdivisional Officer, Ranaghat.

Shantipur has a number of high schools and junior high schools. A college was established here a few years ago.

The town is visited by a large number of pilgrims at the time of the full-moon in the month of Kartik, when the $R\bar{a}s$ $Y\bar{a}tr\bar{a}$ festival lasts for two days and ends with a procession in which the idols belonging to the Gosvamis are carried about on elevated wooden platforms. Shantipur is also a noted bathing place.

There are a number of villages near Shantipur which contain objects of historical interest. Bag-Anchra is named after Bag-Devi, the goddess of learning, whose image was installed here by an ascetic named Raghunandan Bandyopadhyaya. He is said to have attained *siddhi* (salvation) in this village.

Chand Rai, a relation of the Rajas of Nadia, who is mentioned in Bharatchandra's *Annadāmangal*, was a resident of Bag-Anchra. He is said to have been a *Dewan* of Raja Rudra, at whose behest he set up the neighbouring village of Brahma Sasan. Here he erected a temple with its tall spire "kissing the full moon" in which a *lingam* of Siva was installed. The temple is now in ruins. All that remains of the temple are four crumbling smaller temples on the four corners of a quadrangle. The plinth still carries the little figures carved in the brick work. The date of the erection of this Siva temple, 1587 Saka or A.D. 1665 is inscribed on the lintel of the eastern door of the temple.

Bag-Anchra

Brahma Sasan

SIBNIBAS (23°24'N. 88°41'E.) — A village (J.L. No. 37) on the bank of the river Churni in Thana Krishnaganj of the head-quarters subdivision of the district. It is on the Ranaghat-Banpur section of the Eastern Railway. It had a population of 1,146 in 1961.

Sibnibas was the country seat of Maharaja Krishnachandra of Nadia in the early 18th century. It is said that the Maharaja, while out on a hunting errand in the neighbouring woods, was so struck with the serene beauty of the place that he built a palace here for his occasional residence. According to another account. the place was selected because it was surrounded on three sides by the Churni and afforded a comparatively safe and easily defended retreat from the incursions of the Maharattas who were frequently raiding western Bengal in those days. It is said that through the bounty of the Maharaia no less than 108 temples were constructed at the place. The place was named after Sibchandra, the son of the Maharaja. The place was later deserted, although Bishop Heber who visited Sibnibas in 1824 met some greatgrandsons of Maharaja Krishnachandra. In his journal the Bishop gives an account of the ruins of the building overgrown with ivy and jungle. Of the temples, five survive in a more or less dilapidated condition. Three of these are about 60 feet high. Two contain images of Siva and the third has an image of Rāma.

The most imposing is that of Rājrājeśvara śiva, a very tall Octagonal temple with a pointed $chāl\bar{a}$ roof and slender minaret-like projections at each of the corners; the exterior is plain but for brick-panelling. It houses an enormous lingam 8 feet high. Beside it, is a square-based temple, almost equally tall, with another $ch\bar{a}rch\bar{a}l\bar{a}$ roof similarly pointed. It houses another large lingam. Further to the east is the temple of Rāma-Sitā, a double-storeyed building with straight cornices, as plain as the other two. Apart from the cult images, there is an old stone image of Vishņu in the porch. The Rājrājeśvara temple was built in 1754, that of Rāma-Sitā in 1762.

A fair is held here on the *Bhaimi Ekādaśi* day and is visited by about 15,000 persons. The village was purchased in 1860 by one Swarup Chandra Sarkar Chaudhuri, whose son Brindaban Sarkar Chaudhuri is said to have done much to improve its condition.¹

¹ Census 1961: District Handbook: Nadia,

SUBARNABIHAR (23°23′ N. 88°26′ E.) — About 3 miles (4.8 km.) south-west of Krishnanagar town, it is a village (J.L. No. 54) in Krishnanagar thana has the ruins of an old temple, known as Nrisimhadeva temple. The image of Nrisimhadeva, now housed in recent temple, is supposed to be an ancient image of black alabaster, and is a fine example of carving. There are other extensive ruins in this village in a mound covering about half an acre of land and 12 feet in height. This mound is supposed to be the ruins of a Buddhist Vihāra founded by the Pāla Kings.



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